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#### SPECIAL ARTICLES

Morbidity in the Recent Influenza Epidemic
A Note on Influenza in Foreign Countries
Current World Prevalence of Communicable Diseases



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#### UNITED STATES PUBLIC HEALTH SERVICE

HUGH S. CUMMING, Surgeon General

#### DIVISION OF SANITARY REPORTS AND STATISTICS

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# PUBLIC HEALTH REPORTS

VOL. 44

MAY 10, 1929

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#### MORBIDITY IN THE INFLUENZA EPIDEMIC OF 1928-29

Preliminary Report on Surveys in Certain Cities

By M. V. Veldee, Passed Assistant Surgeon, United States Public Health Service

Immediately following the influenza epidemic of 1918 the United States Public Health Service, in an attempt to secure a reliable record of the resultant morbidity, canvassed large samples of the population in a number of cities. For each individual in the canvassed population a record was obtained of color, sex, age, and history of pneumonia, influenza, or less definitely diagnosed illness during the period of the epidemic. A record was also made of the deaths which had occurred during the epidemic in the canvassed households. The results of this survey, which have been presented in several publications, furnish the most nearly accurate and at the same time the most extensive information that is available concerning the prevalence and distribution of morbidity from influenza in the autumn of 1918.

During the epidemic which prevailed during the latter part of 1928 and the early weeks of 1929 plans were made for a similar survey, to afford, for this outbreak, a record comparable to that already compiled of the epidemic of 1918. This survey has now been completed; and, although full analysis of the data collected will require considerable time, some preliminary tabulations have been made which suffice to show approximately the gross morbidity rates in the several localities studied.

Because of the almost prohibitive difficulties and expense of canvassing rural communities, the surveys were limited to large cities; and these were chosen with a view to representing as many sections of the United States as practicable. Those selected were as follows: San Francisco and Seattle, on the Pacific Coast; Des Moines, Kansas City (Mo.), Cincinnati, and Pittsburgh, representing the Middle West; New Orleans, as a southern city; and, in the northeast, Baltimore, Syracuse, and Boston. It was later found practicable to add a single small city, Farmington, Mo.

In order to afford sufficient numbers for statistical analysis, the sample canvassed in each locality (except Farmington) comprised

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(1133)

not less than 10,000 persons, and in cities of more than 400,000 inhabitants this number was increased to 15,000 or more. To secure a representative sample, a total of 12 to 20 districts were marked off in each city, and in each of these districts a systematic house-to-house canvass was made.

The canvasses were made in different cities under the direction of various medical officers of the Public Health Service, detailed for this purpose by the Surgeon General. However, all the surveys were carried out in accordance with a uniform plan previously drawn up in the statistical office of the service, which included a full explanation of general procedure for the officers in local charge, and detailed instructions to enumerators as to methods of inquiry and record. The persons employed as enumerators in the various localities surveyed were of fairly uniform qualifications for the work, being almost invariably graduate nurses, social workers, or teachers. Moreover, the schedule of inquiries was simple; the survey was made in each city as soon as it was clear that the epidemic had subsided, and the periods of time included in the record did not vary greatly. Hence, it is believed that the data collected for the several cities are fairly uniform.

It is fully recognized, however, that all the records are subject to certain obvious, but practically inevitable, errors, due principally to lack of definitive criteria for the diagnosis of influenza, and to lapses of memory on the part of the householders from whom the information was obtained. These causes tend, respectively, to uncertainty in the diagnostic classification of reported cases, and to omission of a certain proportion of cases, especially those which were not of sufficient severity to leave a lasting impression upon the memory.

As regards diagnostic classification of cases, enumerators were instructed to inquire concerning the occurrence of "influenza," "grippe," "pneumonia," or "colds," and to record for each case the diagnosis given by the householder. Presumably all the cases reported as pneumonia had been so diagnosed by attending physicians; and a preliminary check of the records indicates that this was true also in a large proportion of the cases classed as "influenza" or "grippe." Also, it is probable that the cases so diagnosed were usually of sufficient severity to be remembered by the householders and reported to the enumerators. Therefore, with full recognition of all the probable sources of error in reporting, it is believed that the records as to these classes of cases have a fairly definite qualitative and quantitative significance.

On the other hand, a large majority of the cases reported as "colds" had not been attended by physicians; and it is well known that ordinary colds are likely to be forgotten within a few weeks. Hence, it may be inferred that the record of colds is far from complete, and that it probably includes cases of more or less heterogeneous type.

TABLE 1 .- Summary of localities and populations canvassed for incidence of influenza and other respiratory diseases

Localities canvassed	Populations estimated	or bersons	Period for which morbidity was recorded				
Locatives Cally assou	as of July 1, 1928	included in canvass	Total from— (1928)		To- (1929)		
All localities.	4, 859, 885	134, 953					
San Francisco.	585, 300	14, 856	98 75	Oct. 15	Jan. 2		
SeattleKansas City, Mo	383, 200 391, 000	11,750 10,142	69	Nov. 15 Nov. 20	Jan. 2		
Farmington, Mo	1 2, 685	1, 222	70	Dec. 1	Feb. 11		
Des Moines		10, 032	77	Nov. 15	Jan. 3		
New Orleans	429, 400	15, 148	95	Nov. 1 Dec. 1	Feb.		
Pittsburgh	673, 800	15, 814	66	do.	Do.		
Raltimore	830, 400	16, 449	83	_do	Feb. 2		
Syracuse	199, 300	10, 779	73	do	Feb. 11		
Boston	799, 200	17, 316	73	Dec. 15	Feb. 26		

<sup>1 1920</sup> census population.

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Table 1 shows, for each locality included in the survey, the total population, the number of persons included in the canvass, and the period for which illness was recorded, while Table 2 shows, for each group, the attacks of "influenza or grippe," "pneumonia," and "colds," respectively, per 100 persons canvassed. For purposes of comparison, Table 3 is added, summarizing, in a similar way, the results of the surveys made in November and December, 1918, immediately following the major wave of the influenza epidemic of that year.

Table 2.—Attack rates from influenza and grippe, pneumonia, and colds, during the epidemic of 1928-29, in canvassed populations in various cities

A CONTRACTOR OF THE STATE OF TH	Cases per 100 persons canvassed						
City of carry and a company of the c	Influenza and grippe	Pneu- monia	Colds 1	Total, influenza and grippe pneumonia and colds			
All localities	14.7	0.47	2 14.0	1 29. 7			
Sin Francisco Seattle Kansas City, Mo Farmington, Mo Des Moines New Orleans Cincinnati Pittsburgh Baltimore Syracuse Boston	14. 2 17. 9 15. 0 16. 3 28. 6 16. 0 13. 5 13. 4 11. 3 12. 6 9. 9	0.26 0.38 0.60 0.24 0.60 0.36 0.38 0.77 0.47 0.43 0.53	. 19. 6 12. 6 11. 5 21. 2 17. 9 13. 2 12. 9 11. 0 13. 3 13. 8	34. 30. 6 27. 1 37. 29. 6 27. 0 27. 0 27. 0 27. 0 25. 2 3 15. 1 26. 8 28. 8			

<sup>&</sup>lt;sup>1</sup> Including so-called "colds" in head or chest, coughs, and similar minor affections of the respiratory tract other than those reported as influenza, grippe, or pneumonia.

<sup>1</sup> Excluding data from Baltimore.

<sup>1</sup> Includes only those colds which confined patient to bed one or more days.

As shown in Table 2, nearly 15 per cent of the population canvassed in all localities surveyed in 1929 gave a history of having suffered attacks of "influenza or grippe," while 0.47 per cent gave a history

of pneumonia, and an additional 14 per cent reported "colds," which may or may not have been directly related to the epidemic.

The influenza attack rate was notably low in Boston, 9.9 per cent, and exceptionally high in Des Moines, 28.6 per cent. With these two exceptions, the incidence rates were remarkably uniform, ranging only from 11.3 per cent in Baltimore to 17.9 per cent in Seattle. As compared with the attack rates found in 1918, those reported in 1928–29 are only about half as high and distinctly more uniform.

Table 3.—Attack rates from influenza and grippe, pneumonia, and "doubtful" during the epidemic of 1918-19 in canvassed populations in various cities

	Cases	per 100 pe	ersons canv	rassed
City  higher add to the silven and their colored are not	Influenza and grippe	Pneu- monia	"Doubt-ful"1	Total influenza and grippe, pneumonia, and "doubtful"
All localities.	24.2	1.64	2.15	28.0
San Francisco Des Moines Baltimore New London Spartanburg Augusta Macon, Ga Louisville, Ky Little Rock San Antonio Minor towns in Maryland	19. 2 29. 5 19. 8 16. 6 16. 5 30. 4 18. 0 11. 7 34. 3 48. 2 35. 4	1. 60 2. 29 1. 64 1. 63 . 53 1. 46 1. 20 . 84 1. 52 2. 32 2. 43	. 75 1. 31 3. 19 . 24 4. 38 2. 26 2. 11 2. 50 . 04 2. 95 2. 68	21. 5 23. 1 24. 6 18. 5 21. 4 34. 1 21. 3 15. 0 33. 9 83. 5 40. 5

<sup>&</sup>lt;sup>1</sup> Including colds not diagnosed as influenza or grippe.

The incidence of pneumonia, averaging 4.74 per 1,000 in all the localities, ranges from 2.56 in San Francisco to 7.65 per 1,000 in Pittsburgh. It does not at all closely parallel the incidence of influenza, the ratio of pneumonia to influenza being high in Pittsburgh, Kansas City, and Boston, and relatively low in Seattle and San Francisco. Comparing Tables 2 and 3, the incidence of pneumonia is shown to be about one-third as high in the epidemic of 1928–29 as in that of 1918. It is probable, however, that the disparity between the two epidemics is greater than these figures would indicate, since the periods covered by the 1928–29 record are generally longer than those covered in 1918. Moreover, the 1918 epidemic occurred at a season when the prevalence of pneumonia is normally rather low, whereas the recent epidemic occurred at a season when the prevalence of pneumonia is normally rather high and increasing.

In the canvass of Baltimore, enumerators were instructed to record the occurrence of colds only where the patients had been confined to bed for at least one day. Hence, the records of colds in Baltimore are not comparable with those for the other localities, where no such limitation was imposed. Excepting Baltimore, the other cities show an incidence of colds ranging from about 11 to 21 per cent. The significance of these so-called colds in relation to the influenza epidemic will probably be clearer when analyses have been made to show chronology and resulting disability. In the meantime, it is hardly profitable to speculate on the subject. Compared with the attack rates which have been found in groups kept under close and continuous observation, an incidence rate of 15 to 20 per cent in a period of two and a half to three months is so low as to indicate that the reports probably include only a fraction of the cases which actually occurred, and that the records afford no sufficient basis for comparisons of different localities.

Acknowledgments.—The following Public Health Service officers conducted the surveys in the respective cities: San Francisco, Surg. R. H. Creel; Seattle, Senior Surg. L. D. Fricks, assisted by Asst. Surg. F. S. Fellows; Kansas City and Farmington, Passed Asst. Surg. E. R. Coffey; Des Moines, Passed Asst. Surg. A. S. Rumreich; New Orleans, Surg. William C. Rucker, assisted by Passed Asst. Surg. W. Y. Hollingsworth; Cincinnati, Surg. R. Olesen; Pittsburgh, Acting Asst. Surg. R. R. Jones; Baltimore, Surg. W. H. Frost; Boston, Surg. J. W. Schereschewsky.

In each city visited, the Public Health Service officers received the full cooperation of the respective city health officers and their associates. It is a pleasure to acknowledge the cordial cooperation shown by them, as well as by the many persons interviewed.

Acknowledgment is also made to Statistician Edgar Sydenstricker and Associate Statistician S. D. Collins for advice and assistance in preparation of record forms and in other details of procedure.

#### NOTE ON INFLUENZA IN FOREIGN COUNTRIES

The influenza epidemic which recently occurred in the United States appears to have reached many other parts of the world.

The incomplete reports which are at hand suggest that in some areas influenza was unduly prevalent during the spring and summer of 1928. An appreciable excess over the usual number of cases occurred in certain States of the United States as early as April and May. According to the Epidemiological Report issued by the health section of the League of Nations, influenza caused a considerable mortality in July, 1928, in the Province of Szechuan in the interior of China, and the disease at that time became widespread over large parts of North China. Between June and November, outbreaks, generally of mild type, appeared in the Pacific Islands,

<sup>&</sup>lt;sup>1</sup>The writer conducted the survey in Syracuse, and assisted in the surveys in Pittsburgh, Baltimore, and Boston.

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south and east of China, including the Cook, Tonga, and Solomon Islands, and Hawaii.

Late in October the disease became epidemic on the Pacific coast of the United States, coming to a peak there about December 8. Thence it spread eastward, the mortality coming to a peak in New England about six or seven weeks later, near the end of January, 1929.

In Europe, according to the Epidemiological Report of the League of Nations, there was little indication of any oncoming influenza epidemic until the end of December, 1928. The disease seems to have appeared first in epidemic form in Breslau, Germany. It is interesting to note that this city is in the interior, near the southeastern border. In Breslau the death rate from all causes rose from 12.9 per 1,000 (annual basis) during the first week of December to 20.9 in the third week. The peak mortality rate of 29 came during the week ended January 5, 1929.

The epidemic next appeared in other German cities and in some of the Scandinavian countries and Great Britain. In the latter country the disease appeared first in Glasgow. The epidemic seems to have appeared relatively late in the Netherlands, Poland, Austria, and other south European countries. The health commissioner of the Soviet Republics stated that there was no unusual prevalence anywhere in the Union up to the end of January.

The peak mortality rates (all causes) and the dates of their occurrence are shown in the accompanying table for cities in Europe having relatively high rates, with comparative data for cities in the United States.

Peak mortality rates in certain cities in Europe and the United States

Euro	pe		United 8	tates	
Country and city	Highest weekly mor- tality (annual basis)	Week ended	Geographic division and city	Highest weekly mor- tality (annual basis)	Week ended
Sectland: Glasgow  Ireland: Belfast Spain: Barcelona Seville. France: Lille Lyon Paris Germany: Breslau Bremen Berlin Leiprig Hungary: Budapest Copenhagen	55. 2 52. 8 40. 1 34. 4 39. 5 32. 6 30. 4 29. 0 24. 5 27. 5 19. 6	Jan. 26, 1929 Feb. 2, 1929 Feb. 16, 1929dododododo	East South Central: Birmingham, Ala Nashville, Tenn Memphis, Tenn Middle Atlantie: Pittsburgh, Pa West South Central: New Orleans, La Mountain: Denver, Colo East North Central: Columbus, Ohio Detroit, Mich Chicago, Ill West North Central: Des Moines, Iowa Middle Atlantie: New York Pacifie: San Francisco	61. 6 43. 4 40. 4 45. 4 45. 4 40. 1 83. 8 20. 6 21. 8 20. 4 22. 7 20. 6 18. 0	Jan. 12, 1020 Do. Jan. 8, 1928 Do. Do. Do. Do. Jan. 12, 1929 Jan. 12, 1929 Jan. 4, 1929 Dec. 29, 1928 Jan. 26, 1929 Dec. 1, 1928

<sup>1 10</sup> days ended Feb. 20.

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The latest available reports to the League of Nations—i. e., for the week ended March 30—indicated that the decline then was well under way in all sections of Europe, although the general death rates were still high in some places. For example, in 107 large cities of England and Wales the general death rate for the week ended March 30 was still 17 per 1,000. During the preceding week the rate had been 21.4 in the English cities, 20.1 in Brussels, 19.2 in Madrid, 14.9 in a group of 30 Swiss cities, and 13.5 in 49 German cities.

# CURRENT WORLD PREVALENCE OF COMMUNICABLE DISEASES 1

The United States, March 3-April 6, 1929

The prevalence of certain important communicable diseases as indicated by weekly telegraphic reports from State health departments 2 to the Public Health Service is summarized below. This summary is prepared from the data published weekly in the Public Health Reports under the section entitled "Prevalence of Disease."

Meningococcus meningitis.—The attack rate of this disease during the month of March was the highest in the 16 years for which records are available. For the five weeks ended April 6, the number of cases totaled 1,561, representing a case rate (annual basis) of 17.4 per 100,000 population. The highest rate previously recorded was for March, 1918, when a rate of 13.3 was attained. In California the number of cases increased from 83 during the 5-week period ended March 2 to 120 during the 5-week period ended April 6; in Washington State the cases increased from 26 to 78; in Colorado from 37 to 51; in Idaho from 26 to 43; in Missouri from 97 to 136; in Michigan from 115 to 297; in Wisconsin from 32 to 58; and in Pennsylvania from 55 to 91. Significant decreases were recorded in Arizona, Minnesota, Oklahoma, Texas, and New Jersey.

Typhoid fever.—As usual, the incidence of typhoid fever increased slightly during the month of March. The rate, however, compared very favorably with the rate for the corresponding period in 1928 and was considerably lower than that for 1927. For the five weeks ended April 6 there were 782 cases reported.

Poliomyelitis.—Poliomyelitis incidence was at the seasonal low level during the month of March. Of the 77 cases reported, 12 occurred in California, 7 in New York, 6 each in Illinois and Michigan, and the remainder were scattered widely over the country. The rate for the five weeks ended April 6 was almost the same as the rate for the corre-

From the Office of Statistical Investigations, U. S. Public Health Service.

<sup>&</sup>lt;sup>2</sup> The numbers of States reporting for the various diseases are as follows: Typhoid fever, 41; poliomyelitis, 43; meningococcus meningitis, 42; smallpox, 42; measles, 38; diphtheria, 42; scarlet fever, 41; influenza, 31,

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sponding period in 1926 and 1927, but was slightly higher than that for 1928.

Scarlet fever.—This disease apparently reached its maximum seasonal prevalence during the first two weeks of March. Reports indicated a slight decrease during the latter part of the month, which may be expected to continue through the summer months. During the five weeks ended April 6, the reported number of cases totaled 25,602, which was somewhat higher than the incidence during the corresponding period in 1926 and 1928, but was lower than in 1927.

Diphtheria.—The diphtheria rate showed little change during the month of March. Approximately 6,900 cases were reported during the five weeks ended April 6. For the corresponding periods in 1928 and 1927, the number of cases totaled approximately 8,000 and 8,700, respectively. The incidence of the disease is usually lowest during the summer months.

Measles.—The usual seasonal increase of measles continued through the month of March, although the disease was still considerably less prevalent than during any of the three preceding years. The increase over the preceding 5-week period was not confined to any particular section of the country, but was widespread. Reports showed the greatest increases in the Middle Atlantic and New England States and East and West North Central States.

Smallpox.—An unusual prevalence of smallpox still persisted in Maine during the month of March. For the week ended April 6 there were 14 cases, which was the largest number that had been reported since its second appearance in February, 1929. The disease was unusually prevalent during the latter part of 1928, but had apparently died out at the beginning of the year. In Vermont, likewise a State usually free from the disease, 34 cases were reported during the five weeks ended April 6. The disease continued quite prevalent in Arizona, Oklahoma, Arkansas, Illinois, and North Carolina. For the five weeks ended April 6 the number of cases in 42 States totaled 4,615 as against 5,991 cases in 1928, and 4,807 in 1927.

Influenza.—Influenza was less prevalent during the month of March than it had been at any time since the beginning of the outbreak in October. The total number of cases reported for the week ended April 6 was 8,566. As influenza in recent years has usually reached its peak in March or April, the recent low level stands out in striking contrast with the previous years.

Mortality from all causes.—The mortality rate from all causes in large cities as shown by the Bureau of the Census dropped gradually through the month of March, rose slightly in the first week of April, and then dropped again. For the week ended April 13, the rate (annual basis) was 13.5 per 1,000 inhabitants, as against 14.7 for the corresponding week in 1928, 13.6 in 1927, and 15.5 in 1926. It was

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apparent that by this time the deaths from influenza and pneumonia had decreased to such a small number that the total death rate was not materially affected by them.

#### Foreign Countries 1

Influenza.—A review of the influenza epidemic in foreign countries is given elsewhere in this issue of Public Health Reports.

Typhoid Fever.—At Lyon, France, and the surrounding communities on the banks of the Rhone River, 2,430 case of typhoid fever were reported between November 10, 1928, and January 7, 1929. Investigation showed that a leaking waste water outlet running between two filter beds of the Vassieux Waterworks was responsible for the outbreak. Chlorination of the water supply was begun and constructional improvements are now under way. Six antityphoid vaccination centers were established. It is reported, however, that the number of persons availing themselves of vaccination was very small. Supervision was also begun of the preparation and sale of contaminable foods.

Smallpox.—Almost everywhere on the European Continent the smallpox situation was very favorable during the year 1928. Many of the countries were entirely free from the disease, and in others only one to three cases were reported during the year. The incidence fell markedly in France and was lower in Poland and the western, northern, and central parts of the United Socialist Soviet Republics, as well as in the Ukraine and Caucasus, than for any previous year on record.

For the first time since 1921 the number of cases of smallpox in England and Wales showed a decline. The smallpox outbreak in Algeria finally declined in 1928 and marked decreases occurred in Morocco, Tunis, and Egypt. In Northern Rhodesia there was a serious outbreak during the year 1928; a total of 4,235 cases and 69 deaths were reported, as compared with 1,079 cases and 182 deaths in 1927. Reports indicate that the epidemic was most severe in November and December and would probably extend into the present year.

In India the improvement in the smallpox situation was most marked at the end of the year. Significant decreases occurred in the Province of Bihar and Orissa, and in the United and Central Provinces. An increase occurred in Assam, Burma, and the Bombay Presidency. Fatality rates are usually lower in southern than northern India. In Indo-China an excess incidence over the preceding year occurred at the end of 1928. For the month of December the cases totaled 243, as compared with 47 cases in December, 1927.

<sup>&</sup>lt;sup>1</sup> Data from the Monthly Epidemiological Report of the Health Section of the League of Nations' Secretariat, Jan. 15, 1929, supplemented by information published in the Public Health Reports.

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The incidence of smallpox in Java, Dutch East Indies, has continually decreased during the last four years. In 1924 there were 5,994 cases; in 1927, 308 cases and 8 deaths; and in 1928 only 158 cases and 11 deaths. Outbreaks of smallpox were reported in Japan during the first half of the year, but they all came to an end before the year was over. In Chosen, smallpox was less prevelant than in any other year for which records are available.

In Italy and Spain slight increases in the prevalence of smallpox were apparent during 1928. The disease remained widespread in Portugal. Smallpox was at one time or other fairly widespread in the Provinces of China, but the mortality does not seem to have been excessive during the year. During the months of November and December a marked increase of smallpox occurred at Hong Kong and

Shanghai, China.

For the first time since 1922, smallpox appeared in the Panama Canal Zone. One case occurred at Colon on December 31, 1928. There were five subsequent cases in January, 1929. Two cases were reported in Panama City, the first of which was imported from Colombia, South America. A small outbreak of the disease occurred at Guayaquil, Ecuador, during the year. One death was reported at Rio de Janeiro and one at Callao, Peru.

In Canada the total number of cases for the first 11 months of 1928 was 3,069, as against 2,301 for the corresponding period in 1927. Only three deaths were reported for the year, giving a fatality rate of about 1 per 1,000. The disease was most prevalent in Quebec. The Atlantic coast Provinces were little affected, and the situation in Ontario improved markedly during the year.

The incidence of smallpox increased considerably in Iraq during the past year. In 1927 there were 743 cases and 339 deaths reported, and in 1928 there were 1,950 cases and 855 deaths. Reports did not indicate an unusual prevalence of the disease in any other countries

in western Asia.

Plague.—The plague situation was relatively favorable everywhere during the year 1928. India remains the chief plague center; but even there the disease is milder than heretofore, and is not the important cause of mortality that it was in earlier years. During the closing months of the year the fatality rates in the United Provinces, Burma, Bihar and Orissa, and the Bombay Presidency were still high; but, on the other hand, in the Punjab, Madras Presidency, and Central Provinces the rates were very low. The epidemic in the Satara and Dharwar districts of the Bombay Presidency, which had been very severe and had continued unusually late in the season, had declined. The deaths from plague in the United Provinces during the last four weeks of December totaled 1,454 in 1928 as against 1,138 in 1927. The incidence was widespread there, but the eastern districts (Azam-

garth, Basti, and Ghazipur) have been more persistently infected than perhaps any other part of India.

During the month of January, 7 cases of plague occurred at Colombo, Ceylon; 1 fatal case at Makassar, Dutch East Indies; 3 cases at Bangkok, Siam; and 4 from 2 provincial towns of Siam. Thirteen cases of plague were reported from Pnompenh, the capital of Cambodia, French Indo-China, during the five weeks ended February 2. Sporadic cases of plague occurred at Baghdad, Iraq; between December 22, 1928, and January 26, 1929, 11 cases were reported.

In China the plague epidemic at Shansi was under control at the end of the year. Toward the end of January an epidemic of bubonic plague was reported at Siuyuah, in the Province at Shansi. Two small local outbreaks of an epidemic disease resembling pneumonic plague occurred in the Province of Kirin, in Central Manchuria, during January. In Nungan, a town on the Itung River, about 40 miles north of Changchun, 23 cases occurred between November 15 and December 8, 1928, all of which were fatal. A second outbreak occurred in the village of Cha-Chia-Yuantze, a trading center about 100 miles from Harbin. Seven cases occurred, all fatal on the second day of illness. No bacteriological confirmation of the diagnosis was possible.

In Egypt 2 cases of plague were reported at Alexandria during the three weeks ended January 29, and 12 cases at Beni-Suef between December 22 and the end of January. Plague in Nigeria was confined to Lagos, where nine cases were reported during the latter half of December and eight during January 1929. In Madagascar an increase usually occurs in the incidence of plague during the winter months; for the months of November and December there were 209 and 282 cases, respectively, and for the first half of January 188 cases were reported.

A case of plague was reported at Rosario, Argentina, on December 27, 1928, and a case on January 5, 1929. During December, five plague rats were found in Buenos Aires. Plague still persisted in Guayaquil, Ecuador, and in neighboring villages. Twenty-one cases were reported in November and ten cases during the first half of December.

# AUTOMOBILE FATALITIES IN 78 LARGE CITIES, APRIL 26, 1925, TO APRIL 20, 1929

The Department of Commerce, announces that for the 52-week period ended April 20, 1929, there were 7,659 deaths from automobile accidents in 78 large cities of the United States, as compared with 7,221 for the corresponding period ending in 1928, giving rates of 23.3 and 22.4 per 100,000, respectively—an increase of 4 per cent in the year.

May 10, 1929 1144

For the four weeks ended April 20, 1929, there were 528 automobile fatalities in these cities, as compared with 530 in the corresponding period of 1928. The following table gives a comparison by 4-week periods for recent years:

Automobile fatalities for 78 cities by 4-week periods

1925	=1	1926		1927		1927 1928		1928		1929	
4 weeks ended—	No.	4 weeks ended—	No.	4 weeks ended—	No.	4 weeks ended—	No.	4 weeks ended—	No.		
May 23	421 492 493 467 521 527 612 623	Jan. 30. Feb. 27. Mar. 27. Apr. 24. May 22. June 19. July 17. Aug. 14. Sept. 11. Oct. 9. Nov. 6. Dec. 4.	428 374 346 423 493 547 482 499 558 650 676 632	Jan. 29. Feb. 26. Mar. 26. Apr. 23. May 21. June 18. July 16. Aug. 13. Sept. 10. Oct. 8. Nov. 5. Dec. 3.	471 441 441 495 530 507 573 510 526 662 684 619	Jan. 28. Feb. 25. Mar. 24. Apr. 21. May 19. June 16. July 14. Aug. 11. Sept. 8. Oct. 6. Nov. 3. Dec. 1.	531 504 421 530 532 503 516 588 620 623 738	Jun. 26 Feb. 23 Mar. 23 Apr. 20	611 466 528 528		

#### COURT DECISIONS RELATING TO PUBLIC HEALTH

Provisions in bovine tuberculosis eradication law held constitutional.—
(Ohio Supreme Court; Kroplin v. Truax, Director of Agriculture, et al., 165 N. E. 498; decided February 6, 1929.) An action was brought against defendants, officials of the State department of agriculture, to enjoin them from giving tuberculin tests to plaintiff's cattle and from condemning and ordering the slaughter of his cattle. The plaintiff also asked that sections 1121-10 and 1121-14 of the General Code and the rules of the State board of agriculture for compensation to owners for tuberculous cattle destroyed be adjudged in contravention of certain provisions of the State constitution. The following are the challenged code sections:

Sec. 1121-10. In order to secure indemnity as provided in the provisions of sections 1121-1 to 1121-25 of the General Code, the value of all cattle reacting to a tuberculin test applied under the direction of the department of agriculture shall be determined by an appraisal made by a representative chosen by the owner and a representative chosen by the department of agriculture. In the event of a disagreement as to the amount of the appraisal, a third disinterested person shall be selected, at the owner's expense, by the two to act with them in the appraisal of the cattle.

SEC. 1121-14. The State board of agriculture shall have authority to draft and adopt rules for the compensation to owners for tubercular cattle destroyed under the provisions of sections 1121-1 to 1121-25 of the General Code, which compensation shall be subject to the appropriations made available by the general assembly, and such rules shall provide for inspection where indemnity has been waived. The department of agriculture and all officers and employees

thereof shall observe said rules. Said rules may also define any of the terms herein used.

The plaintiff claimed that the statute and rules contravened (a) the constitutional provision conferring the right of every person to possess and protect property; (b) the provision that, when private property is taken for a public purpose, the owner shall be compensated in money, to be assessed by a jury; and (c) the provisions that all courts shall be open and that every person, for an injury done him in his lands, goods, person, or reputation, shall have remedy by due course of law. The decision of the supreme court was adverse to the plaintiff, the court saying in part:

Do sections 1121-10 and 1121-14 of the Riggs law violate the plaintiff in error's property right in his cattle, which may be killed if they are shown to be reactors?

The petition does not allege that any of these cattle have been condemned, nor even that they have been tested. It alleges that active testing is about to be resumed. \* \* \* However, the petition does allege that the plaintiff has not waived indemnity for any of his cattle, and that, in the event his cattle are slaughtered, he will receive very inadequate compensation. He states that the defendants and their agents threaten to subject his cattle to the tuberculin test, and will order slaughtered the cattle reacting to such test. Hence we proceed to consider whether the plaintiff in error's property right will be injured if his cattle are destroyed and compensation is made in accordance with the statute.

After consideration of the record and the adjudicated cases, we held [hold] that the statute is constitutional, and that no property right of the plaintiff in error is violated thereby. Statutes of this nature, providing even drastic measures for the elimination of disease, whether in human beings, crops, stock, or cattle, are in general authorized under the police power.

In providing measures for the protection of public health, the destruction or summary abatement of public nuisances inimical to the public health may be ordered. Unwholesome food may be destroyed; diseased cattle may be slaughtered. Such action is not a taking of private property for public use.

\* \* \* Hence Article I, section 1, and Article I, section 19, of the constitution of Ohio, are not violated.

The mere fact that a partial indemnity is given does not affect the question.

Since the statute does not contravene the private property rights of the plaintiff in error, neither does it violate Article I, section 16, of the bill of rights of the Ohio constitution, in that no appeal to a court and no assessment of value by a jury are provided. Under the sound doctrine which permits boards of health, without resort to the courts, in order to preserve the public health, to make summary destruction of property, this livestock may also be summarily destroyed in order to maintain the public health among the livestock of the State.

The court did not decide the question of the validity of the rules adopted by the State board of agriculture pursuant to section 1121-14 of the General Code, since plaintiff's cattle had not yet been tested and no reactors found.

Making of appropriations by county to defray expenses of State agents in tuberculin testing of cattle not enjoined.—(Ohio Supreme Court;

May 10, 1929 1146

State ex rel. Honeyman v. Commissioners of Miami County, 165 N. E. 502; decided February 6, 1929.) Section 1121-17 of the General Code read as follows:

The county commissioners in their respective counties are hereby authorized and empowered to make such appropriations from the general funds of their county as will enable them to cooperate effectively with the cattle owners, the department of agriculture, and the United States Bureau of Animal Industry in the eradication of tuberculosis. The money so appropriated shall be placed in a fund to be used in the county in which it originated, subject to the approval of the department of agriculture.

The plaintiff asked that the commissioners of Miami County be enjoined from making appropriations, pursuant to the above section, to defray the salaries and expenses of State veterinarians, officers, and employees and other necessary expenses in making tuberculin tests in the county, upon the ground that the veterinarians, etc., were State officers and, if the money was so expended, it would have been expended for a State purpose and the county could not be forced to expend its funds for a general State purpose. The dismissal of the plaintiff's petition by the lower courts was sustained by the supreme court, the contention of plaintiff not being agreed with. The court said:

\* \* The county is a subdivision of the State, subject to the legislative control of the State.

Where a State by enactment, in furtherance of its governmental purposes, imposes an obligation upon a county not in conflict with the State constitution, that obligation becomes one which the county must fairly meet. [Case cited.] Counties are agencies of the State for governmental purposes.

Under the Riggs law, sections 1121-1 to 1121-25, General Code, the testing program is not exclusively a State enterprise. It constitutes a foint enterprise to be carried on by the State and the county. All cattle owners and all milk consumers of Miami County will receive the benefit of the enactment, and under section 1121-17 not one cent of this particular appropriation will be expended outside the confines of Miami County.

These decisions [Albright v. Board of County Commissioners of Douglas County, 108 Kan. 184, 194 P. 913; Chambers v. Gilbert, 17 Tex. Civ. App. 106, 42 S. W. 630] upheld statutes much more drastic than section 1121-17, which simply provides for the payment of bills incurred by officers, agents, and employees of the State in making tuberculin tests of cattle owned and located within Miami County.

On the authority of these decisions and because of the general relation between the county and the State, we overrule the contention.

Since the funds are to be disbursed in accordance with valid statute, the plaintiff in error is not entitled to an injunction, and the judgment of the court of appeals will be affirmed.

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#### DEATHS DURING WEEK ENDED APRIL 27, 1929

Summary of information received by telegraph from industrial insurance companies for the week ended April 27, 1929, and corresponding week of 1928. (From the Weekly Health Index, May 1, 1929, issued by the Bureau of the Census,

Department of Commerce)	Week ended Apr. 27, 1929	Corresponding week, 1928
	The state of the s	
Policies in force	74, 033, 990	71, 066, 816
Number of death claims	13, 594	14, 249
Death claims per 1,000 policies in force, annual rate.	9. 6	10. 5

Deaths from all causes in certain large cities of the United States during the week ended April 27, 1929, infant mortality, annual death rate, and comparison with corresponding week of 1928. (From the Weekly Health Index, May 1, 1929, issued by the Bureau of the Census, Department of Commerce)

		ded Apr. 1929	Annual death rate per		under 1	Infant
City	Total deaths	Death rate 1	1,000, corre- sponding week, 1928	Week ended Apr. 27, 1929	Corresponding week, 1928	rate, week ended Apr. 27, 1929 3
Total (63 cities)	7, 431	13. 1	14.7	726	1 843	3 62
Akron	43		535-126	6	4	62
Albany 4		19.5	20.0	3	. 6.	89
Atlanta.	50	10.2	15.4	4	5	42
White	22			1	3	
Colored	28	(4)	(3)	3	2	
Baltimore 4	212	13.3	14.9	12	92	38
White	161	*********		10	15	40
Colored		(4)	<sup>(5)</sup> 20.0	2	7	32
Birmingham	60	14.1	20.0	3	13	54
WhiteColored	26 34	/6		3	4	45
		15. 2	16.9	24	28	66
BostonBridgeport	33	10. 2	10. 9	3	7	52
Buffalo.		16.3	15. 5	23	21	99
Cambridge	29	12.1	14.5	2	4	36
Camden	28	10.8	16.6	8	8	138
Canton.	23	10.3	12.1	0	5	. 0
Chicago 4	758	12.6	15, 1	81	96	72
Cincinnati	129			11	22	64
Cleveland	180	9.3	10.5	18	28	53
Columbus	87	15. 2	16.8	8	7	75
Dallas	47	11.3	9.6	6	1	
White	35			3	1	
Colored		(3)	17.9	3	0	-
Denver.	65	11.6		5	9	48
Des Moines	30	10.3	10.0	50	1	36
Detroit.	341	12.9	13.0		40	80
Duluth	19	8.5	15.7	0	2	0
El Paso	47	20.9	17.8	. 5	3	********
Fall River 4	20	10.0	11.3	3	5	41
Flint	30	10.5	11.6	4	10	49
Fort Worth	37	11.3	9.8	. 4	4	
White	32	44. 0			4	********
Colored	5	(5) -	(4)	0	0	
Grand Rapids	85	11.1	11.1	2	31	20
Houston.	51		100000	5	10	
White	30			4	6	
Colored	21	.(9)	(9)	1	4	
Indianapolis	106	14.5	14.5	10	8	80
White.	88			6	5	56
Colored	18	(8)	(9)	4	4	239
Jersey City	88	14.2	17.9	7	13	. 54

Annual rate per 1,000 population.

Deaths under 1 year per 1,000 births. Cities left blank are not in the registration area for births.

Data for 70 cities.

Deaths for week ended Friday.

In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta, 31; Baltimore, 18; Birmingham, 39; Dallas, 15; Fort Worth, 14; Houston, 25; Indianapolis, 11; Kamas City, Kams., 14; Kanville, 15; Louisville, 17; Memphis, 38; Nashville, 30; New Orleans, 20; Richmond, 32; and Washington, D. Co, 25.

Deaths from all causes in certain large cities of the United States during the week ended April 27, 1929, infant mortality, annual death rate, and comparison with corresponding week of 1928—Continued

All the second s	Week end 27, 1	ded Apr. 1929	Annual death		under 1	Infani
City	Total deaths	Death rate	rate per 1,000, corre- sponding week, 1928	Week ended Apr. 27, 1929	Corresponding waek, 1928	rate, weel ended Apr. 27, 1920
Cansas City, Kans	32	14.1	23. 0-	3	5	STA
White	27	********		1	3 2 5	
Colored	5	(4)	16, 2	6	5	
Cansas City, Mo	107	9.9	16.9		1	S.W.
White	13	0.0		1	1	
Colored	13	(8)	(9)	10	0 27	23,000
os Angeles	257			10	27	-
ouisville	78	12.4	13.5	î	1	100
WhiteColored	61 17 24 26 82	(*)	(8)		i o	1000
owell	24			1 0 2 7 6	2	119.33
ynn	26	12.9 22.5	15.9	2	7	1
emphis.	82	22.5	20.1	7	3	
White	51	**********	(8)	0	4 4 0 2 7 3 1 2 21 8 6 5	
Colored	31 111	10.7	(5) 14. 3	10	21	
ilwaukee	107	12.3	11.8	12	8	1 100
ashville	43	12.3 16.1	11.8 15.7	4	6	-
inneapolis	43 25			2 2 1	8	14: 28
	18	(*)	(9)	2	6	0.12
ow Bedford	35	15, 3	15.6	i	11	1000
ow Haven	55 137	16.7	17.8	20	18	1900
ew Orleans	85	10.1	11.0	11	8	Settle-
Colored	85 52	(3)	15.3	9	10 172 13 73	
ew York	1,543	(3) 13. 4	15.3	160	172	SCHOOL STATE
Bronk Boroaku	180	10. 2 11. 5	12.6 13.4	16	13	100
Brooklyn Borough	508 656	11.5	20.7	61	57	1000
Manhattan Borough	145	8.0	11.7	11	57 23	LUCKER
Queens Borough	48	8.9 16.7	19.8	5 14	6	26/4
awash N I	134	14.8	12.0	-14	7	PRO SE
ewark, N. Jakland	56	10.7	11.4	2	7	
klahoma City	27	10.9	12.2	2 5	3 2	1000
mana	44	10.3 13.4	13.7	5	2	un Res
atersonhiladelphia	37 509 162	12.9	14.9	46	65	15-129
ittsburgh	162	12.6	16.6	46	28	8 315
ortland, Oreg	68			3	3	THE PERSON
rovidence	81	14.8 12.9	12.6	7	6	and make
ichmond	68	12.9	14.0	i	1	255.6
White	48 31 17	(5)	(6)	3	3	25000
ochester	92	(5) 13.7 14.2	13.2	3 7 4 1 3 2 16	4	100
Lonie	230	14.2	16.6	16	18	STREET, STORY
t. Paul	68			3	3	1 300
t. Paulhlt Lake City 4	41	15.5 16.8	14.8	3 5 11	200	1.83500
an Antonio	70	16.6	16.2	0	4	
an Diego	162	14.5	14.5	0	7	1945
chenectady	24	19 4	15.1	2	3	1
eattle	71	9.7	10.4	3	3	165 S.E.
	16	9.7 8.1 12.5 15.4	12.7	1	100	100
pokane	20	15.4	10.1		2	107
pringheid, Atuss	48	19.6	20.5	5	9	
onter vine pringfield, Mass yracuse oledo	91	15. 2 17. 3 12. 5	20. 5 13. 2	2 3 1 2 4 5	65 28 3 6 7 7 4 3 3 4 18 26 7 7 2 2 2 4 4 1 2 2 9 7 7 3 3 9 9	11 Feb 18
renton	40	17.3	12.4	6	3	State S
renton Vashington, D. C. White Colored	132	12.5	15.1	12	9	The said
White	80	(4)	/8		0	31316
Colored	92 230 88 41 1 38 162 24 44 8 90 91 77 25 17 25 17 27 28 17 27 27 27 27 27 27 27 27 27 27 27 27 27	(4)	(1)	6 12 5 7		1000
VaterburyVilmington, Del	20	11.4	11.0	i	3	10072
Vorcester	54	11.4 14.3	11.0 17.2 10.8 11.1	1		18 (5)
onkers	17	7.3 11.4	10.8	2	8 0 3	
oungstown	29	11.4	1 11.1		3	1000

In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta, 31; Baltimore, 15; Birmingham, 35; Dallas, 15; Fort Worth, 14; Houston, 25; Indianapolis, 11; Kansas City, Kans., 14; Knoxville, 15; Louisville, 17; Memphis, 18; Nashville, 30; New Orleans, 26; Richmond, 22; and Washington, D. C., 25.

## PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

#### UNITED STATES

#### CURRENT WEEKLY STATE REPORTS

These reports are preliminary and the figures are subject to change when later returns are received by the State health officers

#### Reports for Weeks Ended April 27, 1929, and April 28, 1928

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended April 27, 1929, and April 28, 1928

	Diph	theria	Infl	uenza	Me	asles	Menin men	gococcus ingitis
Division and State	Week ended Apr. 27, 1929	Week ended Apr. 28, 1928	Week ended Apr. 27, 1929	Week ended Apr. 28, 1928	Week ended Apr. 27, 1929	Week ended Apr. 28, 1928	Week ended Apr. 27,	Week ended Apr. 28 1928
New England States:	1	27	FRE -1 - 0				3	13.77
Maine New Hampshire	8 2	1	6		186 41 3	31 30 32	0	2001
Vermont	98	92	25	29	501	1, 397	10	200
Rhode Island	9	8	1	-	115	361	0	
Connecticut	21	29	3	17	484	354	2	
New York	347	259	114	1 155	1, 154	3, 045	24	4
New Jersey	105	107	9	28	332	1, 499	10	1
Pennsylvania. East North Central States:	177	169	******		1, 694	2, 024	8	
Ohio	75	145	34	114	2, 195	702	11	1
Indiana	8	15	******	114	423	650	1	100
Illinois	168	109	119	227	1, 838	173	13	• 1
Michigan Wisconsin	86	18	15	780	796 1, 314	1, 126	76	4 to 10
Wisconsin West North Central States:	14	19	10	100	1,019	40		The same
Minnesota.	23	27	1	9	636	105	2	
Iowa.	5	5			82	18	2	
Missouri	33	19	7	29	240	. 527	14	
North Dakota	16	11		132	163	26	3	
South Dakota	5			13	31	11	0	0.00
Nebraska	10	7	1	15	88	128	3	
Aansas	9	7	5	4	379	167	. 5	1 11/10
outh Atlantic States:		4	W. S. S. S.	-				DOM:
Delaware Maryland 2	2				10	35	0	10-3
	16	30	15	38	27 13	728	1	
District of Columbia	25	17	13	12	581	168	1	
West Virginia North Carolina	10	19	19	.12	36	1.384	1	
South Carolina.	13	13	325	543	9	401	0	
Georgia	5	6	28	102	21	150	1	
Florida.	11	7	-0	1	48	94	î	
ast South Central States:	**	-		125				
Kentucky		9		28	39	319	0	110
Tennessee	7	17	26	339	78	784	8	0.01
Alabama	17	ii	63	181	84	426	0	
Mississippi	3	9	LUCIA					

<sup>&</sup>lt;sup>1</sup> New York City only.
<sup>2</sup> Week ended Friday.

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended April 27, 1929, and April 28, 1928—Continued

The state of the s	Diph	theria	Infl	uenza	Me	asles	Menin men	gococcui ingitis
Division and State	Week ended Apr. 27, 1929	Week ended Apr. 28, 1928	Week ended Apr. 27, 1929	Week ended Apr. 28, 1928	Week ended Apr. 27, 1929	Week ended Apr. 28, 1928	Week ended Apr. 27, 1929	Week ended Apr. 28 1928
West South Central States:	3	2	9	351	27	393	6	SIS)
Louisiana Oklahoma <sup>3</sup> Texas Mountain States:	21 5 23	13 21 15	47 63 72	45 730 59	27 71 50 128	355 452 103	6 1 0	
Montana	5	2			149	4	6 3	
Colorado	6 3	13 8 7	3	1 3 1 7	34 6 9	14 96 64	9	
Arizona Utah  Pacific States:	2	6	6	7	205	165	9	
Washington Oregon California	3 46	5 88	29 48	16 27	291 88	90	19	-vonis
Springuist - 14 - 61 - 5	Polion	yelitis	Scarle	t fever	Sma	llpox	Typho	id fever
Division and State	Week ended Apr. 27, 1929	Week ended Apr. 28, 1928	Week ended Apr. 27, 1929	Week ended Apr. 28, 1928	Week ended Apr. 27, 1929	Week ended Apr. 28, 1928	Week ended Apr. 27, 1929	Week ended Apr. 28, 1928
New England States:				-			of the const	-7
Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut	0 0 0 0	0 0 0	12 10 12 206 14 46	24 9 10 240 38 77	0 1 7 1 0 3	0 0 0	1 0 0 6 0	37
Rhode Island Connecticut  Middle Atlantic States: New York New Jersey Pennsylvania Bast North Central States: Ohio	0 2	0 0 2	522 191 390	722 253 439	3 0	2 6 2	12 3 17	100
Ohio	2 0 1 2 0	1 0 0 0 0	260 234 452 422 190	219 70 314 301 122	50 24 43 77 5	25 111 37 27 9	4 2 4 9 5	
Minnesota Iowa North Dakota South Dakota Nebraska Kansas outh Atlantic States;	1 0 0 0 0 0 0	1 0 0 0 1 1 0	120 98 75 29 7 90 127	120 78 108 39 25 63 159	5 39 15 17 18 36 42	2 51 44 3 11 52 104	1 1 4 0 0 1 1	
Delaware Maryland   District of Columbia West Virginia North Carolina South Carolina Georgia	0 0 0 7 0 2	0 1 0 0 1 1	4 53 15 13 24 2 8 5	0 100 51 27 16 12 14	0 0 0 8 20 7	0 0 1 40 103 5 0	0 4 1 9 4 11 8 7	A STATE OF THE STA
Florida Sast South Central States: Kentucky Tennessee Alabama Mississippi Vest South Central States:	0 0 3 1	0 0 1 0	66 19 0 9	38 35 11 11	0 7 1	12 24 48 5 0	5 6 15 6	10
West South Central States: Arkansas Louisiana Oklahoma 1 Texas	1 0 0	0 0	6 41 24 67	12 10 61 53	8 5 57 52	15 20 97 43	6 17 4	

Week ended Friday.
 Figures for 1929 are exclsive of Oklahoma City and Tulsa.

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended April 27, 1929, and April 28, 1928—Continued

	Polion	Poliomyelitis		Poliomyelitis Scarlet fever		Sma	lipox	Typhoid fever	
Division and State	Week ended Apr. 27, 1929	Week ended Apr. 28, 1928	Week ended Apr. 27, 1929	Week ended Apr. 28, 1928	Week ended Apr. 27, 1929	Week ended Apr. 28, 1928	Week ended Apr. 27, 1929	Week ended Apr. 28, 1928	
Mountain States:	0 0 0 0 0 0 0	1 0 0 1 0 0	35 8 7 19 5 5	8 9 20 65 29 2 10	44 10 22 9 1 10 10	30 7 1 2 3 6 11	1 0 0 0 4 0	0 0 1 0 1 1 1 0	
Pacific States: Washington Oregon California	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 0 6	28 15 437	38 2 122	56 33 87	35 63 19	5 1 8	0 10 3	

Week ended Friday.

#### SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State	Menin- gococ- cus menin- gitis	Diph- theria	Influ- enza	Ma- laria	Mea- sles	Pellag- ra	Polio- mye- litis	Scarlet fever	Small- por	Ty- phoid fever
January, 1929 West Virginia March, 1929	6	77	26, 401		402		2	158	36	14
Idaho Kansas Mississippl Montana Oklahoma¹ Oregon South Carolina. Virginia Washington West Virginia	58 22 6 12 23 3 3 36 6	24 55 57 50 126 94 45 51	32 129 4, 377 4 857 453 3, 877 2, 329 197 248	3, 476 109 458 31	30 1, 350 2, 997 454 242 954 37 807 459 1, 304	790 16 351 18	1 0 1 0 0 2 2 2 1 5	48 817 59 96 194 249 74 136 134 137	116 262 2 25 432 185 9 14 228 69	4 11 46 16 22 8 28 28 15 47

<sup>&</sup>lt;sup>1</sup> Exclusive of Oklahoma City and Tulsa.

January, 1929		March, 1929-Continued	-
West Virginia:	Cases	Dysentery:	Cases
Chicken por	244	Mississippi	56
Whooping cough		Mississippi (bacillary)	247
		Oklahoma 1	2
March, 1929		Virginia	
Bctulism:	P. 17	German measles:	
Oregon	3	Kansas	1,050
Washington	2	Montana	
Chicken pox:		Washington	31
Idaho	18	Hookworm disease:	
Kansas	599	Mississippi	339
Mississippi	1,097	South Carolina	197
Montana	94	Impetigo contagiosa:	
Oklahoma i	74	Oregon	-11
Oregon	264	Washington	4
South Carolina	435	Lethargic encephalitis:	
Virginia	617	Kansas	1
Washington	444	Oregon.	1
West Virginia	223	Washington	3
Dengue:	- 11	Mumps:	4 . 10 %
South Carolina	5	Idaho	92

<sup>&</sup>lt;sup>1</sup> Exclusive of Oklahoma City and Tulsa.

Merch, 1929-Continued	1 .	March, 1989—Continued	-train
Mumps-Continued	Cares	Septic sore throat—Continued.	Cases
Kansas	. 772	Oklahoma 1	. 17
Mississippi		Oregon	. 10
Montana		Washington	. 1
Oklahoma 1		Tetanus:	- 33
Oregon		Oklahoma	. 3
South Carolina		Trachoma:	
Washington		Idaho	. 1
Ophthalmia neonatorum:	112	Mississippi	
Mississippi	. 19	Oklahoma i	
Oklahoma 1		Washington	
South Carolina		Tularaemia:	-
Paratyphoid fever:		Oregon	. 1
South Carolina	. 4	South Carolina	
Puerperal septicemia:		Typhus fever:	4.00
Mississippi	. 24	Virginia	. 1
Washington		Vincent's angina:	
Rabies in animals:		Kansas	. 6
Idaho	. 1	Oklahoma i	-1
Mississippi		Oregon	
Oregon		Washington.	
South Carolina		Whooping cough:	- 110
Washington		Idaho	
Rabies in man:		Kansas	302
Mississippi	. 1	Mississippi	1, 386
Rocky Mountain spotted or tick fever:	71	Montana	
Oregon	1	Oklahoma 1	
Scables:		Oregon	
Oregon	20	South Carolina	
Washington		Virginia	
Septic sore throat:		Washington.	
Kansas	4	West Virginia	
Montana			1
<sup>1</sup> Exclusive of Oklahoma City and Tulsa.	65-1-14	The state of the s	Sec.

# Number of Cases of Certain Communicable Diseases Reported for the Month of February, 1929, by State Health Officers

	Chick- en pox	Diph- theria	Mea- sles	Mumps	Scarlet fever	Small- pox	Tuber- culosis	Ty- phold fever	Whoop ing cough
Maine New Hampshire	93	5 5	1, 229	101	108	21	20	2 0	
Vermont	99	17	195	261	37	13	0	2	10
Massachusetts	683	331	1, 517	358	1,058	0	428	10	48
Rhode Island	25	. 54	383	3	147	0	27	3	2
Connecticut	288	106	1, 397	346	207	2	123	0	
New York	2,100	904	3, 549	1, 178	1,971	0	1,685	44	1, 19
New Jersey	993	449	976		610	0	393	6	58
Pennsylvania	2, 356	570	7, 239	1, 943	1, 737	1	647	41	1, 65
Ohio	1, 151	265	4, 163	396	1, 224	178	692	27	1,65
Indiana	406	110	1, 253	67	861	226	191	7	26
Illinois	1,042	536	2, 791	446	1, 792	486	708	18	56
Michigan	764	317	1,406	459	1, 427	146	403	12	56 88 82
Wisconsin	1, 221	96	3, 129	525	839	51	167	29	82
Minnesota	576	101	1, 598		679	13	126	14	33
lowa	142	42	30	343	676	176	48	7	12
Missourl	314	215	1, 123	210	428	198	213	7	25
North Dakota	29	28	127	9	165	4	10	0	5
South Dakota	161	12 80	262 208	113	147	113	18	5	
	516	62	467	530	555 687	229	142	6	23
Kansas	910	02	401	000	08/	229	142		455
Delaware			63	12	11	0	11	0	38
Maryland	406	, 98	434	429	278	0	260	14	10
District of Columbia	139	45	, 19		96	0	85	1	56
Virginia	534	107	677	*******	190	22	1 193	9 25	12
West Virginia	143	63	558		109	73	38 1	20	95(5)

<sup>&</sup>lt;sup>1</sup> Pulmonary.

# Number of Cases of Certain Communicable Diseases Reported for the Month of February, 1929, by State Health Officers—Continued

	Chiek- en pox	Diph- theria	Mea- sles	Mumps	Scarlet fever	Small- pox	Tuber- culosis	Ty- phoid fever	Whooping cough
North Carolina	264	134 130	343 21	31	202 42	66 24	121	6 19	735 237
Georgia <sup>2</sup>	98	62	72	10	47	4	80	24	82
Kentucky <sup>3</sup> TennesseeAlabama Mississippl	170 136 917	52 119 52	14 490 2, 377	66 25 404	256 107 67	10 21 6	155 138 290	19 16 35	102 111 957
Arkansas	135 94 97	45 76 79	284 362 19	178 3 36	107 161 131	18 25 185	1 19 1 114 24	15 35 16	61 13 78
Montana		11 7 6 65	596 23 48 24	12 55 25 100	136 37 58 130	66 130 8 137	11 12 1 39	13 0 7	33 7 1 63
Arizona Utah <sup>1</sup> Nevada <sup>3</sup>		19	35	7	31	21	75	11	17
WashingtonOregonCalifornia	366 212 2, 140	50 48 286	454 463 224	201 149 1, 326	158 185 1,720	192 188 361	207 37 927	12 3 39	189 24 748

Pulmonary.
Report not received at time of going to press.
Reports received weekly.

<sup>4</sup> Exclusive of Oklahoma City and Tulsa. <sup>5</sup> Reports received annually.

#### Case Rates per 1,000 Population (Annual Basis) for the Month of February, 1929

	Chick- en pox	Diph- theria	Mea- sles	Mumps	Scarlet fever	Small- por	Tuber- culosis	Ty- phoid fever	Whoop- ing cough
Maine	1. 52	0.08	20. 10	1.65	1.77	0.84	0.33	0.03	1.05
Vermont	3, 66	. 63	7, 21	9.65	1. 37	.48	. 33	.07	3.99
Massachusetts	2.05	. 99	4. 56	1.08	3. 18	.00	1. 29	.03	1. 47
Rhode Island	. 45	.97	6.86	.05	2.63	.00	. 48	. 05	. 43
Connecticut	2.21	.81	10.72	2.66	1.59	.02	.94	.00	.73
New York	2.34	1.11	3.96	1.31	2.20	.00	1.88	. 05	1.34
New Jersey	3 32	1.50	3, 27		2.04	.00	1.32	. 02	1.96
Pennsylvania	3.08	.74	9, 45	2.54	2. 27	.00	.84	. 05	2.16
Ohio	2.16	. 50	7.82	.74	3.30	. 33	1.30	. 05	3.11
Indiana	1.65	. 45	5. 10	.27	3, 51	. 92	.78	. 03	1.09
Illinois	1.81	. 93	4.85	.78	3. 12	. 85	1. 23	. 03	. 99
Michigan	2.12	. 88	3. 91	1.28	3.96	.41	1.12	. 03	2.45
Wisconsin	5. 33	.42	13. 65	2.29	3.66	. 22	73	. 13	3.61
Minnesota	2.72	. 48	7.55		2. 21	.06	.60	. 07	1.53
Iowa	.76	. 23	. 16	1.84	3.62	.94	. 26	. 04	. 68
NI ISSOUTE	1. 16	.79	4.14	.77	1.58	. 73	.79	. 03	. 95
NORTH DAKOTA	. 59	. 57	2.58	. 18	3. 35	. 08	. 20	.00	1.08
	1, 26	. 22	4. 80	. 35	2.60	2.07	.04	.00	. 48
NEDDINER	1.48	.73	1.91	1.04	5.00		1, 07	. 05	. 57
A.ausas	3. 65	.44	3. 30	3.75	4.86	1.62	1.00	.04	1.65
Delaware	. 27		3. 35	. 64	. 59	.00	1, 05	.00	.74
Maryland	3. 24	.78	3. 46	3.42	2.22	.00	2.14	.11	3.05
District of Columbia	3. 21	1.04	. 44		2, 22	.00	1.96	. 02	2.36
Virginia.	2.67	. 54	3, 39		. 95	.11	1, 97	. 05	2.52
West Virginia	1.06	.47	4. 15		. 81	. 54	. 28	. 19	. 93
NULLE Carolina	9 20 1	. 59	1.50		. 88	. 29		. 03	3. 22
		.90	. 15	. 21	. 29	. 17	. 84	. 13	1.64
MIGH	. 88	. 55	. 64	.09	. 42	.04	. 80	. 21	.73
Kentucky 1									
ennessee.	. 88	. 27	. 07	.34	1. 32	. 05	.80	. 10	. 53
		.00	2.46	. 13	. 54	.11	. 60	. 08	. 56
Mississippi	6.68	.38	17, 30	2.94	.40	. 04	2.11	. 25	6.07

1 Pulmonary. 2 Report not received at time of going to press. 3 Reports received weekly.

Case Rates per 1,000 Population (Annual Basis) for the Month of February, 1929—Continued

na galasini	Chick- en pox	Diph- theria	Mea- sles	Mumps	Scarlet fever	Small- pox	Tuber- culosis	Ty- phoid fever	Whoop ing cough
Arkansas. Louisiana Oklahoma 4 Texas 3	0. 90 .62 .58	0, 30 . 50 . 47	1. 88 2. 40 . 11	1. 16 .02 .22	0.71 1.07 .79	0. 12 . 17 1. 11	1 0. 13 1 . 76 . 14	0. 10 . 23 . 10	0.40
Montana Idaho Wyoming Colorado New Mexico <sup>1</sup>	1. 28 1. 38 2. 52 3. 06	. 26 . 16 . 31 . 77	14. 15 . 54 2. 47 . 28	. 28 1. 28 1. 29 1. 18	3. 23 . 86 2. 99 1. 53	1. 57 3. 04 . 41 1. 61	. 26 1.05 . 05 . 46	. 05 . 30 . 00 . 08	.78 -16 -06 -74
Arizona Utah <sup>3</sup> Nevada <sup>4</sup>	. 85	. 51	. 93	. 19	. 83	. 56	2.00	. 29	.45
Washington Oregon California	2.96 3.02 5.96	. 40 . 68 . 80	3. 67 6. 60 . 62	2.35 2.13 3.69	1. 28 2. 64 4. 79	1. 55 2. 68 1. 01	1. 67 . 53 2. 58	.10 .04 .11	1.53 .34 2.08

<sup>1</sup> Pulmonary. <sup>2</sup> Reports received weekly. <sup>4</sup> Exclusive of Oklahoma City and Tulsa. <sup>5</sup> Reports received annually.

#### PLAGUE-INFECTED GROUND SQUIRRELS IN CALIFORNIA

The director of public health of the State of California reports that on April 22, 1929, plague infection was proved in one lot of five ground squirrels from a ranch 37 miles east of Monterey, Calif. These squirrels were from the same place as the two lots of infected squirrels referred to in the Public Health Reports of April 26, 1929, page 1029.

#### GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

The 98 cities reporting cases used in the following table are situated in all parts of the country and have an estimated aggregate population of more than 31,565,000. The estimated population of the 91 cities reporting deaths is more than 29,995,000. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Weeks ended April 20, 1929, and April 21, 1928

	1929	1028	Estimated
Cases reported	100	- 1	120 100
Diphtheria: 46 States	1,322	1,506	1
98 cities	817	826	841
Measles:		-	1
45 States	13, 508	19, 872	
98 cities	5, 446	8, 085	**********
Meningococcus meningitis:			13096
45 States 98 cities	296	131 79	
98 citiesPoliomyelitis:	139	70	
46 States	15	20	
Scarlet fever:	10		· · · · · · ·
46 States	4, 549	4, 249	
98 cities	1,629	1, 495	1, 335
Smallpox:	Barre		1 1000
46 States	1,018	1, 116	87
98 cities	87	133	A PERMIT
46 States.	210	185	100
98 cities.	50	38	2
		-	192
Deaths reported	THE SECOND		15.12.50000
Influenza and pneumonia:	W	J. Carl	1000000
91 cities	815	1, 313	*********
Smallpox: 91 cities			100000
91 cities	0	0	

#### City reports for week ended April 20, 1929

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence the number of cases of the disease under consideration that may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding weeks of the preceding years. When the reports include several epidemics, or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during non-epidemic years.

If the reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1920 is included. In obtaining the estimated expectancy the figures are smoothed when necessary to avoid abrupt deviation from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

	7 3 7 17	-	Diph	theria	Influ	ienza		1735	Pour
Division, State, and city	Population July 1, 1928, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
NEW ENGLAND	F. 30		1						
Maine:							-	3.5	
Portland New Hampshire:	78, 600	3	1	0	2	0	27	1	2
Concord Vermont:	(1)	0	1	0		0	5	0	1
Barre	(1)	0	0	0		1	0	1	0
Massachusetts: Boston	799, 200	39	35	29	1	0	17	13	26
Fall River	134, 300	0	3 2	4	2		0	0	1
Springfield Worcester	149, 800 197, 600	10	. 2	5 3		0	1 6	1	0
Rhode Island:			12000	1 30					
Providence	73, 100 286, 300	1 0	1 8	3 9		0	73	0	11
Connecticut:	- 10 10 10 10			100		N. ea.	-1101	100	11.5
Bridgeport	172, 300	8	5 5	3 6	i	0	34 48	1 9	3
Hartford New Haven	187, 900	25	2	6		0	8	2	. 2
MIDDLE ATLANTIC			1 1 1 1					10.77	
New York:			1990	77.1			100	1. 31.	100
Buffalo	555, 800	12	10	19		1	40	1	27 145
New York Rochester	6, 017, 500 328, 200	302	248	291	20	13	73 34	25	7
Syracuse	199, 300	39	5	3		0	3	7	. 8
New Jersey: Camden	135, 400	0	. 7	20		0	12	0	9
Newark	473, 600	45	13	36	1	0	7	60	3 9
Trenton Pennsylvania:	139, 000	8	3	4		0	4	0	3
Philadelphia	2, 004, 200	129	64	21	6	5	69	8	53 23
Pittsburgh	673, 800	55	64	16		2	36	9	23
Reading	115, 400	5	2	0		0	24	0	
EAST NORTH CENTRAL	*	1		The same	1			130	-
Ohio:	3 - 63			-					-120
Cincinnati	413, 700	11	8	5	A	1	4	1	3
Cleveland Columbus	1, 010, 300	67	24	23	7	6	651	6	12
Toledo	313, 200	16	3	23 2 3	5	5	75	1 5	8
IDUIADA:	- 4000000000000000000000000000000000000		1	3		0	34	0	2
Fort Wayne Indianapolis	105, 300 382, 100	35	3	3	*******	3	165	10	15
Nouth Rand	86, 100	0	1	1		0	12	0	4
Terre Haute	73, 500	8	1	1		0	11	0	0
Chicago Springfield	3, 157, 400	111	68	89	5	3	1,032	- 29	70
Springfield Michigan:	67, 200	3	1	1	1	1	9	. 0	0
Detroit	1, 378, 900	84	43	56	2	4	57	58	48
Flint. Grand Rapids	148, 800 164, 200	14	3	1 3		1	10	1 2	4 2

<sup>&</sup>lt;sup>1</sup> No estimate of population made.

	1 1149		Diph	theria	Influ	lenza.		7443	- 40
Division, State, and city	Population July 1, 1928, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
EAST NORTH CENTRAL— continued	- N			o Carrill	196			A district	100
Wisconsin: Kenosha Milwaukee Racine Superior	56, 500 544, 200 74, 400 (1)	9 48 32 2	1 13 3 0	0 3 0 0	4	0 3 0 0	23 943 53 0	0 20 0 0	11
WEST NORTH CENTRAL					3.49				100
Minnesota: Duluth Minneapolis St. Paul	116, 800 455, 900 (¹)	5 56 15	1 14 11	1 7 0		0 4 0	267 452	51 72 44	
Iowa: Davenport Des Moines Sioux City Waterloo	(1) 151, 900 80, 000 37, 100	4 0 4	0.1	1 0 0			0 0 4 7	0 0 0 28	********
Missouri: Kansas City St. Joseph St. Louis	391, 000 78, 500 848, 100	32 0 24	5 1 39	1 0 39	1	1 0 1	150 14 16	3 0 5	
North Dakota: Fargo Grand Forks	(1)	3 1	0	0		0	50	0	1
South Dakota: Aberdeen Sioux Falls	8	0	0	-1			0	9	*****
Nebraska: Omaha	222, 800	4	. 2	10		0	68	1	Led (all)
Kansas: Topeka Wichita	62, 800 99, 300	6 30	1	0		0	66	0 22	
SOUTH ATLANTIC						67.70		1002011	- /
Delaware: Wilmington	128, 500	2	2	2		0	12	0	icau.
Maryland: Baltimore Cumberland Frederick	830, 400 (1) (1)	43 0 0	25 0 1	17 0 0	6	1 0	4 2	161	27
District of Columbia: Washington	552,000	29	12	7		0	10	0	16
Virginia: Lynchburg Norfolk	38, 600 184, 200 194, 400	7 11 2	1 1 2	0 0 1		0 0	5 10 4	107 24 2	1
Roanoke	64, 600 55, 200	5 3	0	0		0	176	0 2	0
Wheeling	(1)		1	1		0	170	0	1
Wilmington Winston-Salem outh Carolina:	39, 100 80, 000	7 22 2	0 1 0	0 2		0	0	0	1
Charleston Columbia Greenville	75, 900 50, 600	10 10	0 0 1	0	11	0 0	0	0 7 5	1
leorgia: Atlanta Brunswick Savannah	255, 100 (1) 99, 900	11 2 2	2 0 0	1 0	4	2 0	13 0 0	1 0 0	9
lorida: Miami St. Petersburg Tampa	156, 700 53, 300 113, 400	2	2 0	0	•	0	35	0	3

<sup>&</sup>lt;sup>1</sup>No estimate of population made.

	अ लावर		Diph	theria	Influ	ienza	1		-
Division, State, and city	Population July 1, 1928, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
EAST SOUTH CENTRAL					13	3		4 /100	1000
Kentucky: Covington	59,000	0	1.	0		0	0	0	0
Tennessee: Memphis Nashville	190, 200 139, 600	8 5	0	0		. 0	1	0	3 5
Alsbama: Birmingham Mobile Montgomery	222, 400 69, 600 63, 100	5 1 8	0 0	0 0	3	0	3 1	6 0	19
WEST SOUTH CENTRAL				93				01	
Arkansas: Fort Smith Little Rock	(1) 79, 200	1 0	1 0	0		1	0 1	1	i
Louisiana: New Orleans Shreveport	429, 400 81, 300	0	7 0	11 0	4	6 0	8 8	0	9 2
Oklahoma: Oklahoma City Tulsa	(¹) 170, 500	0 18	1	0	5	0	0 11	0 3	6
Texas: Dallas Fort Worth Galveston Houston San Antonio	217, 800 170, 600 50, 600 (1) 218, 100	1 4 0 0 0	1 0 2 1	1 1 2 4 5		1 1 0 1 4	23 11 0 5 1	0 0 0 0	6 0 4 2
MOUNTAIN		F 1/35	4	8=	6.0	13	10.		Sala
Montana: Billings Great Falls Helena Missoula	9999	12 8 0 0	0 1 0 0	0 0 0		0 0	0 15 0 0	0 3 0 0	0 1 0 1
Idaho: Boise	(1)	0	0	0		0	0	0	0
Colorado: Denver Pueblo	294, 200 44, 200	51 28	10	5 0	7	1 0	1	26	8
New Mexico: Albuquerque Utah:	(1)	5	; 1	0	1	0	0	0	0
Salt Lake City Nevada: Reno	138,000	11	8	3	13	. 0	6	151	1
PACIFIC	0		1		11	-			-
Washington: Seattle Spokane Tacona	383, 200 100, 100 110, 500	31 2 21	3 2 1	0 0		1	2 125 1	28 0 8	0
Oregon: Portland Salem California:	8	14 0	7 0	4 0		4 0	72 0	9	5 0
Los Angeles Sacramento San Francisco	(1) 75, 700 585, 300	117 15 26	40 2 20	13 0 11	38	3 0 0	17 2 9	36 8 17	37 4 7

<sup>&</sup>lt;sup>1</sup> No estimate of population made.

	Scarle	t fever	art of	Smallpe	ox .	Tuber-	T	phoid f	ever	Whoop	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re-	mated	re-	Deaths re- ported	ing cough,	Deaths nII causes
NEW ENGLAND					711		41		- 7 ×	200	1 3 4
Maine:											
Portland New Hampshire: Concord	0	5	0	0	. 0	0	1	0	0	1	16
Vermont:		3	0	0	0	0	0	0	0	0	
Barre Massachusetts:	0	0	0	0	. 0	1	0	0	0	2	710
Boston Fall River	69	57	0	0	0	16	1	3	0	35	225
Springfield	7	16	0	0	0	1	0	0	0	1 2	34
Worcester Rhode Island:	9	3	0	0	0	5	0	0	0	29	56
Pawtucket Providence	1 10	3 7	0	0	- 0	1 3	0.	0	0	2 0	90
Connecticut:			1					100	1 - 10	100	10.70
Bridgeport Hartford New Haven	11 4 9	5 5 2	0	0	0	1 1 4	0	0	0	1 4 8	27 43 38
MIDDLE ATLANTIC	- 3	93			1571					1 200	
New York:										*11-11	
New York	310	283	0	0	0	115	9	0	0 2	32 71	148
Rochester	14	U 4	0	0	0	0	1	0	0	24	53
Syracuse lew Jersey:	12	7	0	0	0	2	1	0	0	18	48
Camden Newark Trenton	33	21	0	0	0	16	0	0	0	7 26	34 110
ennsylvania:		4		0	0	3	0	0	0	3	41
Philadelphia Pittsburgh Reading	97 28 4	75 20 10	0	0	0	25 7 2	1 0	0 0	0	74 27 5	479 164 25
EAST NORTH CEN-											
Ohio:	1										
Cincinnati	21 34	76	0	3	0	11 22	1	0	0	10 81	142 205
Columbus	9	3 7	2	0	0	4	0	ő	0	28	75
Toledondiana:	14	7	1	0	0	6	3.1	0	0	86	- 56
Fort Wayne Indianapolis	6	1	2	0	0	0	0	0	1	0	31 125
South Bend	9	82 2 2	9 0 1	0	0	9	0	0	0	55	23
Terre Haute	2	2	1	0	0	0	0	0	0	8	18
Chicago Springfield	118	168	2 0	0	0	63	2 0	0 2	0	54 8	758 15
dichigan: Detroit	92	208	1	1	0	25	2	2	1	125	323
Flint. Grand Rapids.	7 7	38	1 0	12	0	0 2	0 0	0 0	0	18	25 33
Visconsin: Kenosha	2	2	1	0	0	1	0	0	0	2	12
Milwaukee	28	19	1	0	0	6	1	1	0	114	141
Racine Superior	3	3 4	0	8	0	0	0	0	0	3	12
VEST NORTH CEN-	-			3	-	1					
finnesota:	100		100			100				1	
Duluth	7	7 16	1	0	0	4 2	0	1 0	0	. 3	18
Minneapolis St. Paul	7 47 27	16	1 1 0	0	0	2	1 0	0	. 0	119 54	109 79
owa:			-					-	0		
Des Moines	2 5 2 1	2 22 1 13	2 2 1 0	0			0	0		0	33
Sioux City	2	1	1	1			0	0		7 .	

	Scarle	t fever		Smallpo	X	Tuber-	Ту	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	re-	mated	re-	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST NORTH CENTRAL—continued										11 500	74
Missouri:	1.	15		1	0	8	0	0	0	16	100
Kansas City St. Joseph	15	1	2	0	0	1	0	0	0	2	2
St. Louis North Dakota:	36	7	3	1	0	11	1	2	0	45	220
Fargo.	2	2	0	0	0	1	0	0	0	1	11
Grand Forks	1	1	0	0		******	0	0	*******	0	*******
South Dakota: Aberdeen	1	0	0	0			0	0		0	
Sioux Falls	2	1	0	0			0	0	******	0	10
Nebraska: Omaha	3	3	5	0	0	5	0	1	0	3	200 61
Kansas:	3	3	1	0	0	2	0	0	0	12	16
Topeka Wichita	3	25	î	2	o	ī	0	0	0	. 29	22
SOUTH ATLANTIC		1				-		1	je.	100	pla it
Delaware:	6	1	0	0	0	1	0	0	0	1	37
Wilmington Maryland:					50	1 1 1 1 1			1	1	- milet
Baltimore	32	19	0	0	0	17	0	0	0	112	208
Frederick	3	Ô	0	0	ő	0	ő	0	0	0	3
District of Colum-		0	1 37			2	1			bin harden	PORT.
bia: Washington	24	18	1	0	0	10	0	1	0	30	127
Virginia:	0	1	0	0	0	0	0	0	0	2	12
Norfolk	2	0	1	0	0		0	. 0	0	- 21	
Richmond Roanoke	3	1	0	0	0	3 3 1	0	0	0	0	23
West Virginia:			100	11		1	1 .1	a	1	183	Spinish Vi
Charleston	1 2	0	0	0	0	0	0	0	0		7
Wheeling North Carolina:		1.		0 41						-508	2361
Raleigh	0	0	0	0	0	0	0	0	0	6	mgm7
Wilmington Winston-Salem		1	2	Ô	ő	0	0	O	0	. 39	11
South Carolina: Charleston	0	0	1	0	0	1	0	0	0	-111.0	19
Columbia	0	0	1	0	0	1	0	0	0	3	10
Georgia:	0	0	1	0	0	0	0	0	0	3	1
Atlanta	4	3	3	0	0	8	0	9	6	0	74
Brunswick	0	0	0	0	0	0 2	0	0	0	25	35
Florida:						1		- 0	0	6	10
Miamil	0	2	2 0	0	0	0	1 0	0	0		17
Tampa	0	0	0	0	0	0	0	2	0	5	10
EAST SOUTH CENTRAL	15.10		-		-2-0	1-12-4-	1		119	20	1
Kentucky:						2	0	0	0	0	10
Covington Tennessee:	2		0	0	0	1			1	125000	1
Memphis Nashville	6	. 8	3 0	0	0	8	0	0	0	8	38
Alabama: Birmingham	2	9	7	0	n	5	0	0	0	14	85
Mobile	0 0	0 3	1 1	0	0	4	0	0	0	0	14
Montgomery	0	3	1	0						1	-
CENTRAL		100		1.2	1	1				LEFT ST.	57
Arkansas: Fort Smith				0	1 3	8	0	. 0		0	
Little Rock	0	0	0	0	0	0	0	0	1	0	
Louisiana: New Orleans	0	46	0	0	0	17	2	1 10	0	0	151
Shreveport	1		0	O	0	0	2 0	0	0	1	31

<sup>18</sup> cases in nonresidents.

Talk -	Searle	t fever		Smallp	· xo	Tuber	T	phoid f	lever	Whoop	
Division, State, and city	Cases, esti- mated expect- ancy		Cases, esti- mated expect- ancy		Deaths re- ported	culo- sis, deaths re-	mated		Deaths re- ported	ing cough.	Deaths, all causes
WEST SOUTH CENTRAL—contd.											
Oklahoma: Oklahoma City	2 2	3 0	3	4 5	0	3	0	0	0	0 13	35
Tulsa Texas:			100				1000	1 1		1000	********
Pallas Fort Worth Galveston Houston San Antonio	3 1 0 1 1	8 3 0 1 2	2 5 0 2 0	1 10 0 1 1	0	3 1 1 5 10	0 1 0 0	0 1 0 0	- 0 0 1 0	0 0 0 0	58 25 12 73 62
MOUNTAIN			1						7		13
Montana: Billings Great Falls Helena Missoula Idaho:	0 1 1 1	0 0 2 0	0 1 0 0	0 0 0 3	0000	0 0	0 0 0	0 0 0	0 0 0	0 6 0	11 11
Boise	1	2	0	1	. 0	0	0	0	0	0	8
Colorado: Denver Pueblo New Mexico:	11	0	0	0	0	6	0	0	0	15 0	72 10
Albuquerque	1	0	0	0	0	4	0	0	0		13
Salt Lake City. Nevada: Reno	0	0	0	1 0	0	0	1 0	0	0	14	32
PACIFIC								1	15.6		1 300
Washington: Seattle Spokane Tacoma	8 4 2	12 2 0	2 7 3	6 2 13	0	0	1 0 0	2 0	0	101 3 3	21
Oregon: Portland Salem California:	5 0	3 0	17	14 0	0	6	0	0	0	0	84
Los Angeles Sacramento San Francisco.	23 1 17	52 21 67	5 0 2	0 3 1	0	33 1 15	1 1	0 0	1 0 0	22 13 44	305 25 158
			Mer cus n	ningocoo neningi	Let ence	hargie phalitis	Pe	llagra	Polior	myelitis e paraly	(infan-
Division, Stat	e, and c	ity	Case	s Death	ns Cases	Deaths	Csaes	Deaths	Cases, esti- mated expect- ancy		Deaths
NEW ENG	GLAND									1	
Massachusetts: Boston Worcester		******	3 1		0 0	0	0 0	0	8	0	0 0
New York: Buffalo New York		•••••	0 26		0	0	0	0	0	0 3	0.0
New Jersey: Newark			- 2	1	0	6	0	0	0	0	0
Pennsylvania: Philadelphia Pittsburgh			2	4	1	0 1	0	0	0	0	0

P Common of P	Meni cus m	ingococ- eningitis	Let	hargie phalitis	Pe	llagra	Polici	myeliti paraly	s (infan- rsis)
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
EAST NORTH CENTRAL	4118	The	of the	(Leni		valval	7119	1 34	LI (1)
Ohio: Cincinnati	1	1	0	0	0	0	0	0	10(7)
Cleveland	5 3	1 3	0	1 0	0	0	0	0	1116
Illinois:		6	0	0	0	0	0	0	
Chicago	- 1		- 10	111111		7.3	1000		0.0
DetroitFlint	29	16	2 0	1 0	0	0	0	0	733
Wisconsin: Milwaukee	5	2	0	0	0	0	0	0	
WEST NORTH CENTRAL		-1				-			
Minnesota: Minneapolis	1	0	0	0	0	0	0	0	
Microsopi.	1	100		archi					
Kansas City St. Joseph St. Louis	10 1 6	0 5	0	0	0	0	0 0	0	
North Dakota: Fargo	1	0	0	0	0	. 0	0	0	
SOUTH ATLANTIC			50				- 4	0	14.19
Maryland: Baltimore	1	0	0		0		0	0	others.
North Carolina:	0	0	0	0	0	1	0	0	a (2)
Raleigh Winston-Salem Georgia:	0	0	0	0	3	2	0	0	huel
Atlanta Savannah	6	0	0	0	0	0	0	0	21,00
Florida: Miami	0	0	0	0	0	0	0	2	dia.
EAST SOUTH CENTRAL	7.9			1					at a lite
Tennessee: Memphis	3	1	0	0	0	. 0	. 0	. 0	W. wit
Alahama:	1 15	616.3	1	4.3	100		0	111600	3
Birmingham Mobile	0	0	0	0	0	1	0	,0	13.5.0
WEST SOUTH CENTRAL	100	100	19	E STATE	J. J.			20,000	1
Louisiana: New Orleans	2	2	0		4	3	1	0	
Oklahoma City	0	1	0	0	1	0	0	0	
Tulsa Texas:	1	0	. 0	0	0	. 0	O must regar	0	-111
Fort Worth	0	0	0	0	0	1	0	0	
Montana:	- m	1 6	100	1.00	799				1
Great Falls	1	1	0	0	0	0	0	0	" E-to-
Denver Pueblo	2	2	0	0	0	0	0	0	
Utah: Salt Lake City	11	5	0	0	0	0	0	0	
Washington:			3				with a	tegai	
Seattle Tacoma	12	0	0	0	0	0	0	0	
Portland.	0	0	1	0	0	0	. 0	1	Part.
Los Angeles	2	1	11.50	116	0	1	0	1	-
Sacramento San Francisco	0	1	0	0	0	0	0	0	. 0

1162 May 10, 1929

The following table gives the rates per 100,000 population for 98 cities for the 5-week period ended April 20, 1929, compared with those for a like period ended April 21, 1928. The population figures used in computing the rates are approximate estimates, authoritative figures for many of the cities not being available. The 98 cities reporting cases have estimated aggregate populations of more than 31,000,000. The 91 cities reporting deaths have nearly 30,000,000 estimated population. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

Summary of weekly reports from cities, March 17 to April 20, 1929—Annual rates per 100,000 population, compared with rates for the corresponding period of 1928 1

DIPHTHERIA	CARP	DATEG

					Week e	ended—				
	Mar.	Mar.	Mar.	Mar.	Apr.	Apr.	Apr.	Apr.	Apr.	Apr.
	23,	24,	30,	31,	6,	7,	13,	14,	20,	21,
	1929	1928	1929	1928	1929	1928	1929	1928	1929	1928
98 cities	135	161	129	140	1 132	135	124	146	135	136
New England Middle Atlantic East North Central	120	124	102	110	3 140	126	118	168	143	131
	180	223	187	181	190	189	166	210	198	204
	142	148	119	146	125	121	126	116	122	116
West North Central South Atlantic East South Central West South Central	131	133	138	84	75	102	83	102	112	80
	60	122	66	128	82	96	71	90	66	88
	41	56	41	70	27	35	75	42	7	42
	123	118	123	100	4 122	134	126	162	103	126
Mountain	35 70	80 105	44 30	115	60	44 77	61 67	133	70 60	100

MEASLES CASE RATES

98 cities	760	1, 325	719	1, 375	1 845	1, 275	827	1, 336	900	1, 361
New England Middle Atlantic East North Central	568 179 1, 593	1, 536 1, 397 1, 008	471 154 1,590	2, 014 1, 495 1, 021	3 542 174 1, 834	1, 874 1, 508 1, 033	642 160 1, 943	1,727 1,744 997	502 146 2, 025	1, 743 1, 829 816
West North Central South Atlantic East South Central	1, 880 452 136	728 3, 021 1, 361	1, 782 414 88	751 3,008 1,354	1, 961 650	765 2, 386 596	1, 655 465 129	864 2, 173 814	2, 123 761 54	990 2, 455
West South Central Mountain	198 766 247	1, 135 505 809	99 409 239	847 753 581	4264 618 282	442 709 448	241 192 329	434 744 825	182 209 389	1, 480 385 762 394

#### SCARLET FEVER CASE RATES

98 cities	346	309	319	303	1 291	276	271	223	269	252
New England	306 308 495 292 159	412 375 305 293 226	394 264 452 310 167	405 399 266 258 230	3 348 244 426 275 94	331 367 252 264 186	319 224 372 242 122	301 274 193 278 161	244 224 417 215 90	288 271 289 168
East South Central. West South Central. Mountain. Pacific.	306 281 113 379	154 126 177 202	265 285 78 322	77 146 186 207	210 4 284 104 324	91 150 239 133	183 237 165 387	130 130 239 123	143 233 70 384	11: 100 21: 15:

The figures given in this table are rates per 100,000 population, annual basis, and not the number of ases reported. Populations used are estimated as of July 1, 1029 and 1928, respectively.
 Pawtucket, R. I., and Fort Smith, Ark., not included.
 Pawtucket, R. I., not included.
 Fort Smith, Ark., not included.

Summary of weekly reports from cities, March 17 to April 20, 1929—Annual rates per 100,000 population, compared with rates for the corresponding period of 1928—Continued

GMEAT	LLPOY	CARP	DATES

					Week	nded-				
100	Mar. 23, 1929	Mar. 24, 1928	Mar. 30, 1929	Mar. 31, 1928	Apr. 6, 1929	Apr. 7, 1928	Apr. 13, 1929	Apr. 14, 1928	Apr. 20, 1929	Apr. 21, 1928
98 cities	11	25	16	25	*11	18	12	20	9	22
New England. Middle Atlantle	12	0 0 18 125 25 35 36 62 61	11 0 17 25 13 41 95 44 22	0 0 24 65 78 35 36 142 23	*2 0 15 17 4 7 481 26 17	0 0 24 84 15 14 4 106 18	20 20 8 4 7 79 78 10	0 0 24 49 11 28 16 151 74	0 0 11 10 2 0 12 44 62	0 0 31 61 11 21 8 168 59
	TY	рногр	FEVI	ER CA	SE RA	TES				
98 cities	7	5	10	6	15	5	12	5	10	0
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	7 6 4 6 6 27 8 9 20	9 4 3 0 11 7 8 0 5	5 5 17 8 13 27 20 0	5 4 2 2 23 14 12 0 3	* * 5 2 7 4 4 4 7 * 8 0 7	2 1 3 6 13 21 16 0 8	9 7 11 25 13 20 43 0 7	9 5 1 8 4 21 20 0 3	7 8 4 10 24 7 43 0 10	7 6 3 6 10 21 20 0 3
	IN	FLUE	NZA D	EATH	RATE	8		100	Tallus!	Seg.V
91 cities	27	33	18	30	3 20	35	15	31	15	29
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central West South Central Pacific	5 23 20 30 30 89 77 78 33	9 22 35 24 42 100 100 123 7	5 12 16 18 22 89 37 52 16	11 29 24 28 23 115 87 53 13	1 12 16 18 27 17 74 49 44 20	16 31 40 24 21 92 108 80 7	7 14 15 6 17 30 32 17 23	9 27 27 37 33 123 92 53 13	9 11 14 18 21 15 53 9 , 13	7 26 28 61 17 92 46 53
4 - 2	P	NEUM	ONIA	DEATE	BAT	ES		12 1	-0.00	leo.
91 cities	169	218	158	225	3 150	218	139	213	127	204
New England Middle Atlantic East North Central West North Central Sest South Atlantic East South Central West South Central Mountain Pacific	188 190 141 189 185 170 81 165 170	182 245 211 178 239 222 279 168 101	172 180 132 150 159 170 130 131 157	225 265 206 196 239 161 246 106 118	1 103 178 134 - 147 144 141 142 122 131	179 244 240 184 187 283 187 97	127 161 126 114 165 163 93 113 98	177 243 199 263 212 176 241 196 88	115 134 119 108 146 155 81 122 157	166 243 191 233 187 238 200 100 81

Pawtucket, R. I., and Fort Smith, Ark., not included.
 Pawtucket, R. I., not included.
 Fort Smith, Ark., not included.

Number of cities included in summary of weekly reports, and aggregate population of cities of each group, approximated as of July 1, 1929 and 1928, respectively

Group of cities	Number of cities reporting	Number of cities reporting	Aggregate of cities cases	population reporting	Aggregate population of cities reporting deaths		
	cases	deaths	1929	1928	1929	1928	
Total	98	91	31, 568, 400	31, 052, 700	29, 995, 100	29, 498, 600	
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	12 10 16 12 19 6 8 9	12 10 16 9 19 5 7	2, 305, 100 10, 809, 700 8, 181, 900 2, 712, 100 2, 783, 200 767, 900 1, 319, 100 598, 800 2, 090, 600	2, 273, 900 10, 702, 200 8, 001, 300 2, 673, 300 2, 732, 900 745, 500 1, 289, 900 590, 200 2, 043, 500	2, 305, 100 10, 809, 700 8, 181, 900 1, 736, 900 2, 783, 200 704, 200 1, 285, 000 598, 800 1, 590, 300	2, 273, 900 10, 702, 200 8, 001, 300 1, 708, 100 2, 732, 900 682, 400 1, 256, 400 590, 200 1, 551, 200	

### FOREIGN AND INSULAR

### SMALLPOX ON VESSEL

Steamship "Tuscania."—The S. S. Tuscania arrived at Marseille from Bombay March 27, 1929, with one case of smallpox on board, which was disembarked at Marseille. All passengers and crew were vaccinated before the ship's arrival at Liverpool, April 1. The ship arrived at Glasgow, April 4, with seven cases of smallpox on board, all among members of the crew, which were disembarked and isolated in the hospital at Glasgow.

All members of the crew are under observation, and a list of the passengers has been sent to competent authorities. Sanitary measures have been taken in regard to the ship.

### CANADA

Provinces—Communicable diseases—Week ended April 13, 1929.— The Department of Pensions and National Health reports cases of certain communicable diseases from eight provinces of Canada for the week ended April 13, 1929, as follows:

Disease	Nova Scotia	New Bruns- wick	Quebec	On- tario	Mani- toba	Sas- katch- ewan	Al- berta	British Colum- bia	Total
Cerebrospinal fever Influenza Lethargic encephalitis Poliomyalitis	14	1	6	18 2	1	1	3	7	45
Smallpox Typhoid fever	1 1	2	11 17	15 20	4	1 2		12	40

Quebec Province—Communicable diseases—Week ended April 20, 1929.—The bureau of health of the Province of Quebec reports cases of certain communicable diseases for the week ended April 20, 1929, as follows:

Disease	Cases	Disease	Cases
Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza Measles	2 32 53 12 54 103	Mumps. Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cough.	73 122 8 44 20 21

### CHINA

Meningitis.—During the week ended April 20, 1929, 3 cases and 3 deaths from meningitis were reported at Canton, China. At Shanghai there were 58 admissions to the hospital, and 35 deaths from meningitis during the week ended April 29. No case of meningitis was reported in Hong Kong during the week ended April 20.

### ITALY ....

Communicable diseases—Four weeks ended October 21, 1928.—During the four weeks ended October 21, 1928, communicable diseases were reported in the Kingdom of Italy as follows:

June d'avezagiant le m	Sept	. 24-30	Oct	. 1-7	Oct	. 8-14	· Oct.	15-21
Disease	Cases	Com- munes affected	Cases	Com- munes affected	Cases	Com- munes affected	Cases	Com- munes affected
Anthrax Cerebrospinal meningitis Chicken pox Diphtheria Dysentery Lethargic encephalitis Measles Poliomyalitis.	50 7 37 367 43 1 319 26	46 6 22 207 21 1 109 23	51 2 21 360 21 1 586 28	38 2 14 204 16 1 140 18	43 2 37 387 17 2 763 20	34 2 27 228 11 2 137 18	54 10 55 480 12 1 889 18	44 9 32 281 8 1 160 15
Rabies Scarlet fever Smallpox Typhoid fever	354 1, 351	146 540	293 1 1,432	127 1 628	331 1 1, 339	137 1 549	382 1 1, 285	100

### SCOTLAND

Glasgow—Smallpox.—Information dispatched April 19, 1929, stated that the number of cases suffering from smallpox or under observation in the hospital at Glasgow was 20, of whom 18 were members of the crew of the S. S. Tuscania, and 1 was a passenger. A passenger from the ship was also found suffering from smallpox at Aberdeen, and was taken to the hospital.

### TRINIDAD

Port of Spain—Vital statistics—Comparative—March, 1929.—The following statistics for the month of March, 1929, with a comparison of the same month for the years 1925 to 1928, are taken from a report issued by the public health department of Port of Spain, Trinidad:

	1925	1926	1927	1928	1929
Number of births.  Births per 1,000 population.  Number of deaths  Deaths per 1,000 population.  Deaths under 1 year.  Deaths under 1 year per 1,000 births.	176	140	165	160	164
	32.4	25. 5	29. 9	28. 8	29, 1
	120	115	98	118	123
	22.1	21	17. 7	21. 2	21, 8
	18	20	15	13	24
	102.3	142. 9	90. 9	81. 2	146, 3

### YUGOSLAVIA

Communicable diseases—March, 1929.—During the month of March, 1929, communicable diseases were reported in Yugoslavia, as follows:

Disease	Cases	Deaths	Disease	Cases	Deaths
Anthrax. Cerebrospinal meningitis Diphtheria Dysentery	24 12 267 21 991 5	5 5 75 1 44 5	Poliomyelitis Rabies Scarlet fever Tetanus Typhoid fever Typhus fever	1, 044 3 73 73	1 211 3 10

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

From medical officers of the Public Health Service, American consuls, health section of the League of Nations, and other sources. The reports contained in the following table must not be considered as complete or final as regards either the list of countries included or the figures for the particular countries for which reports are given:

CHOLERA
C indicates cases: D. deaths: P. prese

	-	-							-	Week ended-	-pepu				1 4	1	1
Place	Set Pit	Nov.	Nov. 18-	1928- Jan.	January,			February, 1929	y, 1929		-	Mar	March, 1920	2	100	April, 1929	1929
A AMERICAN AND AND AND AND AND AND AND AND AND A	1928	1928	1828	12,	19	8	24		16	8	8	0	16	R	8		13
Ceylon	OAO			1-400	-						0101	61 64					
Ingiriya Province	906			-													
China: Canton	DA			60-									7	-	-		
Shanghai India Bassein Bombay	10,1	8,4	23,528 14,950	17,038	4,173 2,358 1	3, 739 2, 233 4	3,082	2, 622	2, 193 1, 280	1,881	1,766	69			12	8	
Calcutta	000000 -4886	184681	<b>→</b> 23224.	108 16 16 17	2221	30	2014	88"	282-	820	23-8	-84°	88	155	79	8 1	
Moulmein.	PARO			9	80	0		1	-	-	1	-	1	1	1	-	
RangoonTuticorin				115	4-6	4088		048	- 100	46	10.4	80-1	60 64	9	88	1	
India (French): Chandernagor Karkal. Pendicherry Province		5-02 E	89**58			2583	EERR	2522	8888	0.000	8888	8220	2388		HH   44		

Phompenh Balgon	2		;	9194		- 6		2.0	88	10 1	1 64	e-10-	000	
	- #	5	20			28	28	28	8	7	88	7.5	1	156
	9					3	3   -	800		11	11	8	2	5
Bangkok.	-0#-	22200	1022	2229	±∞	1020	1-1-0	17		5 2 2 2	101	110		=*
Dhamannet						nn	010-				4 4			11
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			72			•			•				
thom.				10			1	-			68			
			-							1	-			
			-							11				!!
Singhapuri						00		1					11	!!
			151	181		- 091	- 04							11
Smud Sagara		27	885			79	1							
On vessel: S. S. Elwa at Penang from Singapore	8 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1		\$ 0 0 0 0 0 0 0	0			1			4	4		
		111	Octo	Novem			January, 1929	130	Fe	February, 1929	1929		March, 1929	182
Place			1928	1928	1928 1928	1-10	11-20	21-31	1-10	11-20	21-28	1-10	11-20	0 21-31
Ind>-China (French) (see also table above): Cambodia.			181	212	28	8	8	_ 8	8	9				m 82
Cochin-China	***************************************				190		202	270	101	110	-			20

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER-Continued

PLAGUE
[O indicates cases; D, deaths; P, present]

	ě	Now	Dec.							Week	Week ended-						
Place	Nov.	F 25.	Jen Jen	January, 1929	7, 1929		February, 1929	7, 1920			Ma	March, 1929	8		1	April, 1029	8
policies, accessors	1928	1028	1920	91	. 8		0	16	B	64	0	16	8	8		22	22
geria: Algiers	0																
Oran. Argentina: 1 Buenos Aires Catamares Province—Racreo		•															
Cordoba Province— Canada Honda.																	
Jujuy Province—Perico. Rosario	000		0				8						120				
Santiago del Estero. Tucuman Province—El Mollar. Azores: St. Michaels Island.	000	40	2	1													
Belgian Congo: Djugu.							-	69			-						11
Lenta	000	1	1		-		1				1	1					
British East Africa (see also table below): Uganda. Canary Islands: Tanariffo.	18 18	* 555	291 281	28	333	88	34	88	88	ដន	68						
Ceylon: Colombo	ם סם	**	00 00			64-	- 200	04.04			04-		04	64			
Plague-infected rats						******	04	04			*****	63					

Mongolia—Tungliao. Sayuan Province. Dutch East Indies: Celebes—Matassar. Java.			- 1				4 - 1		!!!	4 4			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Plague-infected rats.  Plague-infected rats.  Kediri Residency.  Equador (see table below).  Asrandria.	000 00	33	58	22	22A 8	18 1000 -	8 8	22	99	•	64		e			- 10	
Assiout Province Benl-Sud Dierout	90000	-	08	-	- 0100							84-	-				10-
Kens Province Menoufish Province. Buer. Tants Greece (see also table below): Athans and Pireus.	0000 00	•								-			H	-			
India Basein Bombay Plague-infected rats	SA SA SA SA SA SA SA SA SA SA SA SA SA S	7, 4, 88 88 4 88 4 88	28.2 28.1 1 28.2 1 85.2	2,88, 2,83, 2,2, 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	2,166 2,166 10 10	42,4 42,4 42,4 43,4 43,4 43,4 43,4 43,4	2,588 1,588 1	25,3 896 1 286	44, 86, 86, 17-41-8	2, 528 2, 528 2, 528	2-2		2000	8- 8	1 1 1		
Madras Presidency. Rangoon Rangoon Plague-infected rats Indo-China (see also table below): Prompanh.	SHOOD OF	889	28ã-n ×	88 - %	68 **	08844	F3 00	89 8-	88	Egans	38 × v-	C4 00 00	901 010	NO 44	100 mm		
Salgon	000						1	10	-				-	•			

l at Chipion and I at Uescha, both in Cordoba Province, Argentina. Play I to Dec. 31, 1928. plague-infected rats were reported at Buenos Aires, Argentina, from July I to Dec. 31, 1928. nofficial report.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER-Continued

PLAGUE-Continued

[O indicates cases; D, deaths; P, present]

	3	_	_							Week ended-	pepu							
Place	N. P.	4 % =	785 E	Janua	January, 1920		February, 1928	F, 1920			Mar	March, 1929		8 4 1		April, 1929	1929	6
	888		-	9	8		•	91	8	61	•	2	83	88		13	8	12
Iraq: Baghdad	DE	S <sub>ro</sub>	0.00			1000			-	•		*	100	01-1				69 69
Plague-infected rats.	00				01-	-	10	9	•	10	9	00	69	P4	-	24	TII	
Plague-infected rats. Madagascar (see also table below):			64	1			-		-									
Morocco	DOD	8											813	82	229			
Nigeria: Lagos.	200	3:	2:		**	-	1-1-	98	**	N2 N2					1			
Plague-infected rata							ដ	2	16	15	•							
Peru (see table below). Senegal (see table below).						9	8	000					3					
Bangkok		1	œ !					24	0	1	1							
Nagara Pathom									61-					**				11
Panknampo. Straite Settlements: Singapore	300								-									1
Syria (see table below).	9 0	1																
Union of Socialist Soviet Republics: Kalmonks District Kasacks	001	921																
Ural Government.	_	1 1												45				

Reports incomplete.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER-Continued

### SMALLPOX

[O indicates cases; D, deaths; P, present]

	. 6	Nov	Dec.			1				Week ended-	-pep	-			19.3			
Place	Now.	4 5 5.	Jen 1926.	Januar	January, 1929		February, 1929	y, 1929			Ma	March, 1929		p)		April, 1929	1929	
	1928	1928	1829	9	8	01	•	16	8	64	•	16	8	30		13	8	12
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Cherchell		'							+	11	9	=	97	12				
Oran abla: Aden	200		1	1	1					-		1	-=-	0	00		II	
low), Kenya-										1			•	•	•			
			. EI															
	4	90 HO	8			-	121	1	16									
	00	2	80	69										-				
uver	## 000000	288	728°	64 m	16	126	10	72	442	33	. 85.0	e g	4	<u>se</u> 00	9	2	•	
Nova Scotla. Ontario. Kingston	2000	12	38	1	•	81	4	28	8	1.5	-	2	ā	• =	9	15		
Ningara Falls North Bay Ottawa	0000	-64						1	64-		-		-					
Toronto Windows	300					1							-		-	-		
rd Island	999	25.00	604	334	000	800	φ-m	98	12	900	SI SI	410	e -	01 m	100 00	= -	90	
Riviere du Loup.	-															-		I

Saskatchewan

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		200	22	-	<b>©</b> 10				-					
11			928											

Ecuador (see table below). CALLELLY DAVIDED SALVELDON AND HEALTH WALL BANKED

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER-Continued

SMALLPOX-Continued

[O indicates cases; D, deaths; P, present]

			Dee							Week ended-	-pep						
Place	Nort.	Dec Per	1826. Jan 1926.	January, 1929	, 1920	-	February, 1929	y, 1929	1		Mar	March, 1929		2010		April, 1929	828
	1928	1928	1929	10	8	**		16	8	~		91	81	8	0	13	8
trypt: Darbleh. Door Said							1	-				40				1	
Sue. range et able below). Irest Britain:	. 38	1 91	733	E	8	230	250	123	8,1	288	87	273	288	8	23	339	
Bristol			*		1	79	*	a	31	22	8	13	H	1	-0	-10	
Hull		-80			1	01-	1	1	1		-	1	00	60		-	
Loeds London London Navostileon-Tyras				-9	13	17	+10-	981	41	108	18	= 000	13	9	22	87	
Nottingham Plymouth Stokeon-Trent		700	•	2	•	8	- 64	40	•	•	40	1	8	8	8	4	
Scotland— Dundee		2													1	12	
Glasgow Greece (see table below). Hedjar	0.00		845										23	82	82	22	
	SOUDDOUG SE	836 1, 602 20 4 2 2 2 2 2 3 4 113 4	1.4 2.4 2.4 2.4 2.4 2.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3	6. 25. 25. 25. 25. 25. 25. 25. 25. 25. 25	8 8 8 2 7 8 2 7 8 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 8 7 7 8 7 7 8 7 8 7 7 7 8 7 7 7 8 7 7 7 7 8 7	8.28 8.02 8.02 8.03 8.03 8.03 8.03 8.03 8.03 8.03 8.03	1.25 2.25 2.25 2.25 2.25 2.25 2.25 2.2	8. 8.8. 2.2. 2.2. 2.2. 2.2.	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8. 2. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	\$65.0	28823	22222	888 R 88	338348		
Madras		E8	38	8.0	_	1	_	_	77	_			38	ŽN	28		

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ина в	25 8200 25 48 25 48	2222 2222 22172	18 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	trim).	Nagasaki Osaka Macsoo		territory. C 5

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER-Continued

SMALLPOX-Continued

[O indicates cases; D, deaths; P, present]

				Dec.							Week	Week ended-							
Place	Saz-	Nov. Dec.		Jen. J	Sanuary, 1929	1920		February, 1929	7, 1929			M	March, 1929	82			April	April, 1929	
	9			12,	10	8		•	16	8	04	•	16	83	8	0	22	8	22
Mexico—Continued.	Q	-																	
	000		11	11						-				C4 C4					
Morocco (see table below).  Morocco (see table below).	0			1													4		
Lagos Southern Provinces	000	1				75	188												Ш
Penama Canal Zone	100	-	80	-				7"							4				
Portugal (see also table below). Lisbon	9 0	1		64	61		64								-				
Oporto. Senegal (see table below). Stam.	0 0	1	00	20				•		60									-
Bangkok. Spain: Valencia	2000		-	•   -		04	1	64								111	111	111	
Sudan (Anglo-Egyptian)	POP	52	82	575	32	179	80		\$2	<b>E</b> 3		32	80	No.	1	82	17	600	400
Sudan (French) (see table below).  Sweden: Stockholm.  Syria (see table below).	0 0		- •	1							**	*							
Tunista: Tunis Union of South Africa: Cape Province.	00	• д	· A											11					
Orange Free State	000	AA.																	

And the second	-	1	Octo-	No		Decen	December, 1928	- 8	30	January, 1929	628		February, 1929	1929		Mar	March, 1929	
Place			1928	1928 1928	1-10	-	11-20	21-31	1-10	11-20	21-81	1-10	11-20	21-28	1-10	-	11-20	21-31
ndo-China (see also table above)		000	180	7		8	8	120	22	130	101	128	236				8	361
Senegal Sudan (French)		000	53 23			64		ď				800			111	!	ne 18	-1
Syria: Beirut		AO.	-		2			1		1		22	24		8	11	*9	2
Place	Sep Tem 1928	Oeto- Der, 1928	Ne los	Per	Janu- ary, 1920	4558				Place		100.00	9323	Sep- tem- ber, 1928	N N N N N N N N N N N N N N N N N N N	Der Der	Janu- ary, 1929	Feb. 1929.
e above):	-	21 28	8 78	150			Gre	Greece					000	0 +	Ø=10	9 8	∞ t- 5	2118
Zanzibar Chosen: Chinampo	27-00		9-1	131	2-0	-4-8	- Por	Portugal (e	oe also	e also table above	(0.4)		0000	24	88		11	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER-Continued

## TYPHUS PEVER

[C indicates cases; D, deaths; P, present]

			Dec.						*	Week ended-	-pep		4	JE			- 1
Place	Nov.	Nov. 186.	78.00 E	January,	.3.	Feb	February, 1929	1020		•	March, 1929	6281			April	April, 1929	
	1028		1920	92	8	6	-	16 23	64	•	92	8	8		22	8	
Jeeria: Algiers	00										990	-8					
Constantine Department Oran Sulgaria	0000	0			404			00		101	27.0	-					
Sofia Chús: Valparaiso Dafas:							-					11					
Canton Hong Kong	OAO			Net													
Hardin Harbin Chosen (see table below).	DD	2															
Egypt: Alexandria Assouan Province	00				0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11	+	040									
Beheira Province.	ADAG							10	-		00	3		50	80		
Daqaibiya Province.	POPO	-	69				-		04-								
Menouth Province	00															8	
Creece (see table below). Ireland: Irish Free State— Clare County—Scariff.	00	1								-							

0

Dublin

Augustana a se		Q				oleanana a		4		44 4 4 4 4 4					Balance.				
Kerry County— Dingle Dingle Killarney Killarney Mexico (see albe below): Aguincallentee		00 0		CI									-	C1 00		61		61	
Chihuahua, Mexico City, including municipalities in District.	Federa		Zu.	12	3.4	69	*-	-	600		80	-	64-	-	-	6.0			
San Luis Potosi Morocco Palestine		000	19	22		146	1-04	t-	10-	9	200	-		1		1001	9-		
Peru (see table below). Poland		00	81	111		88	26	22	7	47	19	16	28	8					
Portugal: Oporto		000	17	-9-	191	98	40	42	30	5180	32	20.8							
Tunista.		00	*-	0	1			Ci		00				0	1	0	-		11
Turkey (see table below). Union of South Africa: Cape Province		00	A-	A.		Д	ы	Д	P4	p.	А	Д	Α	А					
Natal Orange Free State Transvaal		111	-44	44	1 11	944	9-	A.	а	24	es Dr								
Yugozlavia (see table below).					9		-												
Place	Octo- Der, 1928	New No.	. 00- 1928	Janu- ary, 1929	Feb.	March, 1929				Place	8	1	*	024	Octo- N ber, be 1928	No- Vem- ber, by 1928	De- Ja ber, 18	Janu- r ary, a 1929	Feb- ru- nu- nary, 1929
Chosen: Chosen: Senulpo		-	60				Me	Mexico: Sonora (see also table above). Peru. Turkey.	onora	see als	o table	ароле		DOOR	4	00	19		· ·
thens			-   F	200	S.	62		Yugoslavia.	-					1 1	1	17	7	12	-256

45900°-29-4

# CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER-Continued

## YELLOW FEVER

[C indicates cases; D, deaths; P, present]

	to		Dec.							Weel	Week ended-	1						
Place	Nov.	15.02 E	1925. 1926.		January, 1929		February, 1929	y, 192			Ma	March, 1929	8	17		April, 1929	1929	
	1028		1920	91	8			16	83	64	0	16	83	8		13	8	23
Brazil: Bahis.	0				3				1					-				
Guaratingueta	90									=				-				
Para Rio de Janairo I	900	6	616		1	1	10	18	=	7 6	14		9	=	20	24	1	30
Sao Paulo						*	22.	0	•	18	2		8	8	2	20	R	8
Dahomey: Ouldah Military Camp	ADI	1					=											
Gambia: Bathurst	200	000																
Liberia: Monrovia	200				60											I		
On vessel: 8. S. Victoria, at Manaos, from Para, Brazil	0 0																	
	Ω		-				-	-	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					-	-	

1.20 cases of yellow fover with 14 deaths were reported at Rio de Janeiro during January, 1929, mostly suburban. Imported. \*\* Suspected cases.